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JAIrUR.
Public Works
report 1901.

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JAIPUR STATE.

COMPLIMENTARY

PUBLIC WORKS REPORT

FOR THE

Year ending 31st December 1901.

Hilababab PRINTED AT THE PIONEER PRESS

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REPORT ATTACHED.

Lala Rup Chand, Assistant Engineer.

JAIPUR STATE.

PUBLIC WORKS REPORT

FOR THE

Year ending 31st December 1901.

I.-GENERAL REMARKS.

1. Expenditure.—The expenditure for the year ending 31st December 1901, has been as follows:—

				Rs.	a.	p.	Rs.	a.	p.
New Works	•••	***	•••	•••			22,555		
Repairs	•••	•••	•••	•••			1,03,432	14	7
Irrigation	•••	•••	•••	•••			2,56,187	3	0
Miscellaneous	Public I	mprovements	•••				70,732	5	0
City Water St	ipply	•••	•••	•••			46,792	15	11
State Cotton I	ress								
Jainur	∫ Capita	l Account enance	***	5	5	4	5	5	4
Danj	Maint	enance	•••	25,945	6	0	25,945	6	0
Mandaor	∫ Capita	l Account enance	•••	943	14	1.	15,370	10	7
2121201101,	\ Mainte	enance	•••	. 14,426 12 6		1 · 6 ·	3 10,010	10	1
Gas Works	***	•••	•••	•••			34,873	6	9
Establishment	***	•••	•••	•••			180,03	8	2
Imarut works	***	•••	•••				61,093	1	1
Other State W	orks	•••	•••	•••			3,053	4	3
Miscellaneous	other ite	ms *	•••	***			*42,168	13	10
•		Total	***	***		_	7,49,171	8	4
Jaipur Sewai-!	Indhopu	r Railway	•••	•••		_	1,.25,261-	. 1	0
	GRAND	TOTAL	•••	***		_	8,74,432	9	4

2. Supervision.—The total for supervision of works amounts to Rs.1,01,103. Deducting this from the total outlay, it gives a percentage of 13.07, as shown at foot.† The percentage depends mainly on the amount sanctioned. It should be noted too that in addition to supervising works the establishment is also employed in the preparation of new projects, which do not represent expenditure.

8,74,433 : 100 :: 66,982 : 7.66.

Adding cost of extra establishment, which is Rs. 34,121-

66982 + 34,121 = 1,01,103.

Actual expenditure on works minus extra establishment-

8,07,451 - 34.121 = 7,73,330.

7,73,330 : 100 :: 1,01,103 : 13.07 ---

that is, after deducting the sanctioned and extra establishment from the whole expenditure, the cost of supervision and control on the actual outlay for works comes to 13 07.

^{*}This is the total amount of bills issued during 1901 for works, &c., done for private individuals and certain other items noted in Appendix A.

[†] Taking percentage of Establishment on Sanctioned Works :--

3. Plans.—There were 374 plans prepared in the Drawing Office, comprising 167 original designs and 207 tracings, besides 66 plans drawn and submitted by Overseers.

4.	Estimates.—The number	prepared di	uring the	vear was-

			No.	Rs.	a.	p.
In the P. W. D	•••	•••	566	8,04,938	12	0
" Imarut	•••	•••	85	83,577	7	2
" Gas Works	•••	•••	3	12,124	5	3
	Total	•••	654	9,00,640	8	5

5. Final Bills.—The number submitted during the year was—

				No.	Rs.	a.	p.
	In the P. W. D	•••	•••	85	2,25,328	10	7
	" Imarut	•••	•••	155	61,745	1	1
	" Gas Works	•••	***	1	88	7	9
		Total	•••	<u></u> 241	2,87,162	3	5
6.	Estimates checked—						No.
	In the P. W. D	•••	•••	***	***		60
	,, lmarut	•••	•••	•••	•••		85
	" Gas Works	***	•••	•••	•••		3
				Total	•••	-	148
7.	Work in Office—	En	glish.		43	N	 ĭo.
	Letters or papers recei	ived	•••		•••	3,	976
	,, ,, desp	atched	•••	•••	•••	4,	080
	Vernacular " dispe	osed of	•••	•••	•••	2,	353
	Day-books checked	••• '	•••	•••	•••	2,	414
	Ledger heads kept	•••	•••	•••	•••		588
	Muster rolls checked	•••	•••	•••	•••		238
	Bills of contractors an	d others and v	ouchers	•••	•••	4,	385
		Pe	rsian.				
	Papers received	•••	•••	•••	•••	12,	348
	,, despatched	•••	•••	•••	***	6,	192

8. Cash Balances.—Outstanding against this office on 31st August 1901—

						Rs.	a.	p.
Cash	•••	•••		•••	•••	59,495	4	4
Advances	•••	•••		• • • •	•••	1,78,789	13	8
Stock General	•••	•••		•••	•••	60,578	11	1
" City Wat	er Supply	•••	•1	•••	•••	48,685	9	3
Imarut Works	•••	•••		•••	•••	236	0	8
Works carried o	ut on Sanct	ion—fu	nds to	be	provided and			
adjustable ne	xt year			•••	•••	1,30,772	14	5
M iscellaneous	•••	•••		• •••	•••	534	4	5
			To	tal	•••	4,79,092	9	10

9. Stock,—The total value on 31st December 1901—

					ks.	a.	p.
City Works	•••	•••	• • •	•••	7,349	2	7
Tools	•••		. • • •	***	10,426	12	. 5
Plant and Machin	ery		· • • •	•••	156	5	G
Instruments	10-			140	1,761	15	11
Tents and Office	Furniture	•••	•••	•••	492	2	1
Small stores, Meta			•••	•••	26,660	6	2
Timber	•••	•••	•••	***	3,948	14	7
House Fittings	•••	•••	•••	***	1,209	2	0
Miscellaneous	•••	•••	•••	•••	6,528	8	7
			Total	•••	58,533	5	10

10. Savings and unexpended balances remitted to the Raj Treasury were-

						Rs.	a.	p.
On accoun	t of th	e P. W. D.	***	•••	•••	61,246	5	2
**	13	Imarut	•••	•••		4,946	14	0
31	22	Gas Works	•••	***	•••	•••		
**	29	Cotton Press	, Jaipur	•••	***	•••		
29	11	72	Mandaor	***	•••	•••		
				Total	•••	66,193	3	2

11 Revenue Remitted.—Besides the above the following sums were also remitted to the Raj Treasury:—

				Ks.	а.	р.
Cotton Press, Jaipur, Revenu		•••	•••			
,, ,, ,, Miscella		•••	•••	•••		
,, ,, Mandaor, Reve		***	•••	•••		
,, ,, ,, Miscellar	neous	•••	•••	•••		
Gas Works Revenue	•••	•••	•••			
City Water Supply Revenue	•••	•••	•••	2,837	0	0
Agra Kothi ,, ,,	•••	•••	•••	380	0	0
Ram Newas Garden ,,		•••	•••	1,815	14	10
Dâk Bungalows, Rent ,,	•••	••	•••	788	13	6
Roads, by Sale of Trees, &c.	•••	•••	•••	1,185	12	9
Sale of Jaipur Portfolio of	Architect	ural Details	•••	377	15	9
		Total	•••	7,385	8	10

12. Raj Imarut.—This is a separate branch of the P.W.D. of the State, and is chiefly concerned with all works desired by His Highness the Maharaja in the Palace or elsewhere, the sale of Raj land or houses in the City, the Raj quarries, the collection of rent from Raj shops, &c.

Lala Chiman Lal, the Darogha, has superintended this branch with credit to himself and to the satisfaction of the Durbar. He has submitted a report which is printed separately. The following is a brief abstract:—

Expen	diture during 1901	•••	Rs. 1,22,079			
165	Estimates prepared amounting to	•••	1,73,643	0	0	
144	Final Bills submitted "	•••	80,280			
476	Sites inspected with reference to cases	•••				

The cost of supervision (excluding the cost of establishment from the total expenditure) is Rs.12,883-15-9, which gives a percentage of 7.27 on total expenditure and income.

The tinal bills submitted by the Daroghā are checked, where possible, by an Assistant Engineer, and are then sent to the Durbar.

Since the Imarut has been under Lala Chiman Lal, the savings which have been made and remitted to the Raj Treasury through the Superintending Engineer are:—

Up to the end of 1900 During 1901	•••	•••	•••	Rs. 1,79,054 4,946	5	6	
		Total	•••	1,84,001	3	6	

Lala Chiman Lal has served as Darogha of the Imarut since 1st September 1886, i.e., the last 15 years, and for 15 years before that he worked under Colonel Jacob in the Engineer's office with credit.

13. The Gas Works—are under the superintendence of Mr. Dominy. His report is printed separately and gives details. He has superintended the works satisfactorily.

Comparing 1901 with 1900, the following shows the expenditure, cost of gas, &c.:-

Item	S.	1900.	1901.			
Gas production Miscellaneous Revenue Average number of jets Gas consumed Cost of gas per 1,000 c. ft.	•••		Rs. a. p. 27,071 2 9 12,409 14 7 4,112 2 9 No. 756 34,56,040 c. ft. 7 7 2	Rs. a. p. 28,116 5 0 11,146 15 0 4,389 13 3 No. 729 35,43,400 c. ft. 7 9 6½		

The saving of Rs.5,255-7-8 on the Budget grant for the year has been returned for payment into the Raj Treasury.

The office was inspected by Assistant Engineer Lala Rup Chand, on the 19th November, and reported on satisfactorily.

14. State Cotton Press—Jaipur.—The capital outlay up to 31st December 1901 amounts to Rs.2,24,954-6-1.

The following statement shows briefly the capital expenditure, the number of bales pressed, the return and percentage:—

	Year.		Expenditure. Capital Account.	Number of bules pressed	Net return.	Annual percentage on outlay.
1885 1886 1887 1888 1889 1890 1891 1892 1893		•••	Rs. a. p. 1,51,994 6 2 30,754 2 1 13,138 10 0 8,221 2 10 10,408 3 5 2,496 5 2 4,317 13 3 3,040 5 4 456 4 10	423 27,623 32,229 19,860 33,384 37,513 31,850 21,193 13,839	Rs a. p. 724 14 7 58,154 15 3 63,400 7 8 35,114 6 6 63,072 14 11 68,523 8 4 59,904 2 5 37,606 4 9 21,492 12 10	.47 31·76 32·31 17·17 29·86 30 64 31·64 16·76 9·53
1894 1895 1896 1897 1898 1899 1900	•••	•••	1,376 5 41,489 2 5 243 14 77 14 7 3 14 1	22,181 23,542 20,760 24,711 17,055 29,350 15,336 11,311	38,547 1 11 38,558 5 6 33,680 10 6 40,982 6 2 19,316 9 4 39,832 13 6 10,185 13 10 11,186 15 0	17·15 17 16 14 98 18·24 8·59 17·71 8·53 4·97

After paying all expenses the press at Jaipur has earned a clear profit of Rs.4,22,723-2-5 up to date. Lala Jadu Nath, the manager, has submitted a report, which is printed separately. He has the general supervision of this press and also of the one at Mandaor, and has carried out his duties satisfactorily.

The machinery of the presses is under Mr. Dominy, Engineer of the Water-Works and Superintendent of the Gas Works.

- 15. State Cotton Press—Mandaor.—The number of bales pressed was 7,626. After meeting the working expenses there has been a net profit of Rs.4,700-2-9, which gives a percentage of 4.11 on the capital outlay on this press, Rs.1,14,306-14-10.
- 16. City Conservancy.—The portable railway line, length 15,350', with 4 depôts and 209 wagons of sorts, have all been maintained in good order.

The following work has been done: 81,204 wagon loads of foul earth and sweepings removed from the city, equivalent to 649,632 c.ft.; 5,122 dead animals taken away; 16,829 cartloads of refuse, leaves, grass, &c., brought by the municipal carts have been burnt in the furnaces at the depôts to save the cost of removal.

Fresh and clean sand has been brought in as required for the urinals, latrines and tigers cages.

70 sheet iron bodies of the tilting wagons have been renewed.

17. Ice.—The total quantity despatched from Agra and Lucknow during 1901 was 899 maunds 26 seers.

The average wastage in transit was 20 maunds 28 seers per cent., the maximum being 23 maunds per cent. in August; the minimum 16 maunds 19 seers per cent. in November.

The average wastage per cent at the Ice Depôt, Jaipur, was 10 maunds 51 seers.

The total amount sold or disposed of was 703 maunds $14\frac{1}{2}$ seers. The total expenditure was Rs.2,624, the amount realised Rs.2,847-6-6. The selling price at Jaipur was 0-1-6 per seer.

- 18. Lime.—11,172 maunds of stone lime have been made at a cost of Rs.5,269, giving an average rate of 2 maunds 4 seers 12 chittaks per rupee. Last year the rate was 2 maunds 7½ seer per rupee, the reason being that the price of limestone was formerly Rs.9-4-0 per 100 maunds, now it is Rs.11.
- 19. Stone-cutters' Yard.—The following are some of the works which have been carried out during 1901:—

Marble canopy for Hon. W. E. Cooper at Cawapore.

- ,, tabernacle for the altar of R. C. Church, Neemuch.
- 24 tombstones modelled and estimated; 13 carried out, 11 in hand.
- A quantity of cutstone work has also been carried out for 12 irrigation works in the district.
- 2 marble altars made for churches in Delhi, one in hand.
- 2 ,, fonts in hand for churches at Mussoorie and Karnal.
- 1 ,, lectern in hand for church in Dehli
- 1 ,, table for hospital at Karnal.
- 2 brass memorial wall tablets for Ajmer and Rewari; the latter in hand,
- 20. Workshops.—During the year 546 orders entered in the Order Book. The total expenditure was Rs. 10, 104-1-9. The following are some of the chief items of work done:—

 Church furniture for Patiala in shisham wood.

Altar.-Altar rail with brass standards.

Lectern, prayer-desk with seat and vestry chair.

Boat (17' × 5') for Bikanir; copper sheet on teak frame.

Brass door for tabernacle for altar at Neemuch.

" candlesticks for altar for Delhi.

Camel trunks.

6 corrugated sheet-iron cylinders for deepening wells.

Wooden gates and overhead gear for raising sluices.

Repairs to the portable railway plant, rails, wagons, axle-boxes, &c., and many other items too numerous to mention.

21. Ram Newas—Expenditure.—The total on garden maintenance for the year was Rs.17,472-4-7 or Rs.1,159-9-10 more than in the year 1900.

The following is a comparative statement for the two years 1900 and 1901.

Items.				1900.	1901.		
Permanent Establishment Watering Miscellaneous	nent	•••		Rs. n. p. 5.427 14 6 8,471 11 4 2,410 0 11	R ₄ , a. p. 5.175 9 6 8.634 14 7 3,661 12 6		
		Total		16,312 10 9	17,472 4 7		

There is a saving of Rs.252-5-0 on permanent establishment, an excess of Rs.160-3-3 on watering owing to deficiency of rain, and Rs.1,251-11-7 on miscellaneous on account of purchase of new lawn mowers, &c.

Construction.—The amount spent on works of construction and repairs was Rs.4,017-4-6; the items are shewn in detail in the report submitted by the overseer, and comprise over 75 items.

Receipts.—The amount realized by sale of garden produce is Rs.1,721-3-9 or Rs 160-7-4 less than in 1900. The following is a comparative statement for 1900 and 1901:—

Particulars.				1900.			
Sale of vegetables, dallis		. An every live of the control of the live of the control of the live of the control of the live of th		Rs. n. p. 277 12 4	Rs. n. p.		
	•••	***	***	58 3 6	11 6 0		
" plants and shrubs	•••	•••	•••	120 10 6	68 5 0		
rose plents	•••	•••	••• }	20 12 0	4 0 0		
	•••	•••	•••	119 5 6	106 13 6		
Nut domena	•••	•••	•••	149 7 0	117 5 6		
Funita	•••	••-	••• {	74 14 6	127 8 0		
Damanaka	•••	***		31 10 0	34 4 3		
Zum/Īrian	•••	•••	•••	88 14 9	34 13 0		
	•••	•••		27 13 9	1 9 6		
Old pani grass Birds and animals	•••	•••	•••	78 0 3	69 13 0		
	•••	•••	•••	276 4 0	241 5 0		
Fools and implements	•••	•••	•••		40 13 0		
Dry wood	•••	***	••• }	167 0 0 343 0 0	. 440 0 0		
Green grass Flower Show Tickets	•••	•••	•••	40 0 0	54 1 0		
	•••	•••	••• [77	04 1 0		
Cuttings of plants Fruit trees	•••	•••	•••		6 12 0		
Price lists and catalogues	•••	•••	•••	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 0 0		
T 00		•••	•••	1	10 0 0		
Kings	•••		•••	•••	0 4 0		
rines	•••	•••	•••	***	U 4 U		
		Total .	[1,881 11 1	1,721 3 9		

247 plants, shrubs, roses, &c., to the value of Rs.55-6-0, have been issued free to the Residency, the Superintending Engineer, the Church, the Cemetery and Polo Club. If this be added to the above, the total receipts will be Rs.1,776-9-9.

Issues The following were	issued	during	1901	:
---------------------------	--------	--------	------	---

					No.
Dallis or baskets of vegetal	les	***	•••	•••	2,492
Bouquets	•••	***	•••	***	1,526
Baskets of cut flowers	***	•••	•••	***	431
Rose plants	***	•••	•••	•••	14
Plants and shrubs	•••	•••	•••		408
Fruit trees		•••	***	***	29
Packets of seeds, flower,	111 }		•		370
" " vegetable	s, 259 \$	***		•••	510

Plants and seeds were received as under :-

The Superintendent Sujjan Newas Garden, Udaipur -

24 roots of canna, 3 varieties.

'Native gardeners, Jaipur-

1,000 rose Edward.

The Superintendent, State Gardens, Baroda-

19 plants (palms) 17 varieties.

Ernst Benary of Erfurt-

74 packets of vegetable seed.

217 ,, flower ,, 6 ,, palm ,, 26 ,, tree ,, Dutch bulbs.

Messrs. Thomas Methuen & Sons, Edinburgh-

1 packet Tropæolum Speciosum.

Government Botanical Gardens, Saharunpur-

56 packets seeds of trees and shrubs.

Government Horticultural Gardens, Lucknow-

6 plants Solanum Macranthum.

Messrs. Damman & Co., Naples-

22 packets of flowering annuals seeds.

22 " vegetable

Acclimatised seeds were collected from the garden as under :-

Flowering annuals seeds 108 varieties.

Tree and shrub , 12 ,,

Vegetable , 20 ,,

A list showing the names and quantity of seed is given in the Overseer's report.

The following have been sown in the gardens-

							1/8.	čŁ,	γ.	
69	variet	ics of flower seeds,	va	lue	•••	•••	32	14	0	
17	,,	trees and shrubs	"	•••	•••	•••	22	3	0	
18	"	vegetable "	55	•••	•••	•••	30	11	0	

Vegetables.—The seeds from Ernst Benary germinated well, excepting parsnip (2 sorts), salsify, celeriac, lavender, rosemary, rue, sage, summer savory and winter savory. The seeds from Messrs. Damman & Co., of Naples, 22 varieties, all germinated, except turnip, and were excellent.

Flowers.—The seeds received from Ernst Benary did well, with the exception of 22 varieties, which the Overseer notices in his report. 22 varieties were received from Messrs. Damman & Co., of Naples, on 20th October, and were sown on the 29th October; all germinated freely except "mimulus moschatus."

Plants.—20 varieties of shrubs, creepers, trees and palms were raised from seed obtained from Mr. Benary.

Rose Garden.—A plot of ground about 150' × 40' west of the Albert Hall has been cleared and planted with Rose Edward, also a portion south-west of the Aviary, to which water from the Aviary tanks is passed off whenever the tanks are cleaned.

Flower Show.—The 21st year of the annual Flower Show took place on the 8th March 1901. 218 prizes, amounting to Rs. 250-8-0, were awarded, and 38 exhibits were commended.

•				Prizes.	Amount.			
					Rs.	a.	p.	
For flowers	***	•••	•••	115	137	0	0	
,, fruits`	•••	• •	•••	33	34	8.	0	
" vegetables	•••	•••	•••	70	79	0	0	

The above amount was distributed among 36 malis. Each prize-winner was required to sign a paper certifying that he has himself raised the exhibit for which the prize is awarded, to prevent any one unfairly winning a prize. 865 admission tickets were sold to the public, realizing Rs. 54-1-0—at one anna each. The next day there is no charge made for admission.

Apprentice boys.—Sons of malis are taught reading and writing in the vernacular and simple arithmetic for 2 hours daily;—the rest of the day they work in the garden, and are examined every 3 months by the Overseer. 22 are under training.

Zoological Section. All the birds and animals have been well cared for. The numbers on the list for 1901 were—

							Rs.
Balance on 1st January 1901 Received during 1901—		***	***	**	•••	1,656	
Brough	nt by raj	shikaris	•••	***	220	7	
"	from "	shikarkhana	•••	•••	4		
17	17 17	Shekhawatti	•••	•••	1	}	
Purcha	sed	•••	•••	•••	784		
Increased in the garden			•••	•••	303	ز -	1,312
			•	Total		•••	2,968
Struck off—died or sold Balance on the 31st December						•••	1,113
							1,855

The details of birds received and the items and quantities of food given is shown in the report submitted by the Overseer.

The total expenditure on this section during 1901 was Rs. 11,552-8-2, including establishment, food and all other expenses.

The account and office were inspected once a month or so by one of the Assistant Engineers.

22. Surveys.—The following were carried out during 1901:—

Under Assistant Engineer Lala Rup Chand—Lakawas Bund, Nego Bund, Binori Sagur, Gangapore and Lalsot Road, Gangapore and Bharoti Road, Mora Sagur, Gaitolao, Rawatwala Tank, Buswa project, Kothun and Lalsot Road.

Under Assistant Engineer Lala Indra Sahai—Raising Bhambolao, Kachnaria Nullah for canal crossing, Gagru Nullah for canal crossing, Newal Sagur, Kurwa-ka-Bas, Dhamalia Tank, Hingonia and Govindi canal, Chaparwara supply canal, Pachala duct, Kalegh Sagur canal, Agur Sagur, Dantoli, and contours of 34 tanks to secure record of contents at every foot in depth, Tori Sagur Nullah No. 1, Rupahaili Tank, raising Garera H. W. L. 2 ft., Dungri, Malpura to Rajmahal Road (in progress).

23. Journals.—The distances travelled by the engineer officers during 1901 on duty were—

		Road.	Rail.	Total miles.	
Colonel Jacob	•••	•••	650	157	807
Mr. C. E. Stotherd (4 n	nonths only)	•••	678	•••	678
Licut. A. ff. Garrett, R	. E	•••	875 .	674	1,549
Lala Rup Chand	•••	•••	1,730	669	2,399
Babu Mukerji	•••	•••	1,077	139	1,216
Lala Indra Sahai	•••	•••	2,304	472	2,776
Overseer Kotu Mall	•••	•••	2,651	358	3,009

24. Personal.—Colonel S. S. Jacob was in charge during 1901. Mr. C. E. Stotherd was on well-earned leave from 30th March until 21st November 1901.

The services of Licutenant A. ff. Garrett, R.E., were again lent by the Government of India to the Jaipur State from 28th April 1901.

Colonel Jacob is glad to place on record his appreciation of the excellent service rendered to the State by these two officers. Mr. Stotherd in the Railway Branch especially, of which he has had sole charge from the beginning, as well as in every other branch of the Public Works of the State, in all of which he has ably and cheerfully superintended or given help.

Lieutenant Garrett has helped in many ways, especially in the restoration of the Observatory of Maharaja Sewai Jai Singh, which has been lately sanctioned by His Highness Maharaja Sewai Madho Singh. Lieutenant Garrett's professional attainments have proved of great use, and the way in which he has worked with the native astronomers has insured success.

The Assistant Engineers Lala Rup Chand, Babu K. N. Mukerji and Lala Indra Sahai have proved themselves useful and efficient officers.

The reports submitted by each officer show in detail the works in their charge and are satisfactory.

Owing to the death of Babu Sookh Lall, the Overseer in the S. W. districts, this division has been put in charge now of Lala Indra Sahai, Assistant Engineer. There are 90 tanks scattered over an area of about 2,700 square miles, 7 main canals aggregating 298 miles in length, with many miles of smaller distributaries.

It is with regret the death of Babu Sookh Lall, Overseer of the Western District, is recorded. He died 3rd October 1901, and although latterly, owing to failing health and energy, work was often delayed, still the good work he had done in his day must not be forgotten. He came 'fresh' from' Roorkee here in 1868, and has served in this district for over 30 years. Some of the largest and best of the irrigation works, such as Kalegh Sagur, Tori Sagur, Chaparwara Sagur and many others, were carried out under his superintendence. His character for integrity also stands high. Colonel Jacob is glad to have the opportunity of placing on record this tribute to his memory.

Owing to increasing infirmity B. Asgar Ali, Sub-Overseer, Tonk Road, has been replaced by Sub-Overseer Gokal Chand.

25. Designs were submitted from this office, in addition to the ordinary work, for the undermentioned, viz., Chief Court at Burma (gaining half the second prize), new offices for the Civil Secretariat at Simla (accepted by the Government of India), for an obelisk as a memorial on the Frontier, small memorial Hospital at Mount Abu, General Post Office at Lahore, Runic cross memorial for Delhi, Dais and amphitheatre for Coronation assemblage, Delhi.

26. Rainfall and Ratio of run off.—At the following places the rainfall recorded has been as follows:—

Place.			Rainfall in inches	s. Ratio	o of run off.
Boochara	•••		6	42 per cer	nt. or 2.5 inches.
Ramgarh	•••	•••	8.78	5.1 ,,	0.4 ,,
Sainthal	•••		***	12.3 ,,	1.6 ,,
Chaparwara	•••	•••	6.83		***
Phagi	•••	•••	4.67		***
(1) Kalegh	•••	•••	3 78	1.75	•••
(2) Tori	•••	•••	14 30	4.75	

The above shows how precarious the ratio of rainfall and run off is in this country, depending so much on soil, nature and duration of rainfall.

The rainfall at Nim ka Thana has been 12 inches. The run off calculated on this gives a percentage of 21 for Boochara.

27. The Irrigation Commission—Visited Jaipur 17th—20th November. President: Sir Collin Scott-Moncrieff, K.C.M.G., C.S.I., R.E.; Members: T. Higham, Esq., C.I.E.; the Hon'ble Mr. D. C. J. Ibbetson, C.S.I.; Diwan Bahadur Rajaratna Mudaliyar; Secretary: W. B. Gordon, Esq. Meetings were held in the Albert Hall on the 18th and 19th November. Representatives of the following States were examined: Jaipur, Ulwar, Bharatpur, Dholepur and Tonk.

The proceedings will no doubt be duly recorded by the Commission.

28. Raj Observatory.—The famous observatory, which was founded here by Maharaja Sewai Jai Singh, consisting of masonry edifices on a large scale for recording astronomical observations, for many years has been in disrepair. His Highness the present Maharaja Sewai Madho Singh has sanctioned all these instruments being repaired. The work has been well carried out by Lieutenant A. ff. Garrett, R.E., assisted by the native astronomers. Lieutenant Garrett has personally checked all the calculations, and the result reflects credit on all concerned.

29. Jaipur-Sewai Madhopur Railway.—General Remarks.—This work is in charge of Mr. Stotherd, who reports as follows:—

The following works, which remained incomplete at the end of 1900, have been carried out:—

Earthwork.—Capital III.—Plantations were maintained in all station-yards. Earthwork repairs to banks were completed throughout the whole 73 miles.

Sidings were completed at the locomotive yard, Jaipur, and in Burwara and Sewai Madhopur station, yards.

Protecting spurs were completed near mile 34 to divert cross drainage from the vicinity of the railway embankment.

Bridgework.—Capital IV.—The Banas Bridge, 30 spans of 60 feet.—The remaining masonry work on this bridge was completed before the rains. Ashlar and bed stones are being erected, and the work is practically finished and is ready for the erection of the girders.

When entirely finished this bridge will be of the utmost utility in providing communication across the Banas river, which is nowhere bridged in the State, and forms an obstacle to traffic. It varies from $\frac{1}{2}$ mile to over 1 mile in width, fordable only at certain points in the dry season, and impassable in the rains except between the heavy floods, and then only in large flat bottomed boats at 3 or 4 places only.

Arched bridges, 5 spans of 18 feet arches and 12 spans of 15 feet arches, were completed before the rains at mile 41. All the major and minor bridges, numbering seventy in all, have now been finished throughout the entire railway, and only the erection of girders remains to be done.

Road crossings—Capital V—have been consolidated with kunkur throughout the line.

Ballast collection—Capital VII (1)—had already been completed last year.

Permanent-way — Capital VII (2)—Nothing can be done until funds are allotted by the Durbar as noted in the last annual report.

Station Buildings.—Capital VIII.—The station building at Sewai Madhopur is nearly finished. The remaining station buildings are finished.

All station and goods platforms have been consolidated with kunkur.

A store shed has been completed at Jagatpura station, to serve as a store depôt for the laying of permanent-way.

A running room for the native staff, consisting of a dormitory and two dining rooms, with a separate cook room to each for Hindus and Mahomedans, has been built at Sewai Madhopur.

A sub-inspector's quarter has been completed at Sewai Madhopur with four out-houses.

A well for locomotive purposes 20 ft. diameter has been sunk at Sewai Madhopur.

Two engine-sheds with repairing shops are nearly completed at Jaipur and Sewai Madhopur respectively. Accommodation is provided for four engines at each place.

Thus with the small amount of work still required to be done to complete the enginesheds and the Sewai Madhopur station, nothing more can now be done until the Durbar allots the funds required for the purchase of the permanent-way, girders, &c.

As soon therefore as the above mentioned works are finished, the work will be closed pending the allotment of the necessary funds.

Testimony to the Officer in charge.—The whole work from start to finish has been entirely under Mr. Stotherd assisted by one Assistant Engineer, Babu Kaloda Nandan Mukerji, and a small staff. Mr. Stotherd desires again to place on record the excellent services rendered by this officer. The whole of his work has been carried out in an entirely satisfactory manner with economy and efficiency.

Testimony to the Engineering staff.—The following is a list of the sub-overseers employed on the railway during the year: Babus Abdul Rahim and Chandi Pershad, Gokul Chand, Harsaran Das and Murad Ali.

The first three have now been transferred to ordinary P. W. of the State, while B. Murad Ali has come under reduction. B. Harsaran Das remains to complete the remaining works. All have worked well.

Testimony to the clerical staff.—Head office—

- B. Ajodhya Pershad.
- B. Chhoga Lal.
- P. Sukhdeo Pershad.
- B. Gahra Lal, Draftsman.
- B. Jewan Baksh, Store-keeper.
- Seth Kanhaya Lal, Treasurer.
- L. Mohri Lal, Sub-treasurer.

Assistant Engineer's Office.

- B. Bijay Lal, Head clerk.
- B. Kedar Nath, Assistant clerk.
- L. Maya Chand, Sub-treasurer.

The whole staff has worked well and given satisfaction. Babus Ajodhya Pershad, Chhoga Lal and Bijay Lal deserve special mention.

The Assistant Engineer's staff was withdrawn from the Banas River in August, and the dispensary there closed on completion of the masonry work.

Babus Sukhdeo Pershad and Kedar Nath came under reduction in August and October respectively.

Work in the	he Office-	-	•		English.	Vernacular.
Letters	and pape	ers received	•••	•••	1,124	122
"	"	despatched	•••	•••	1,113	169
Mu	ster rolls	checked	•••	•••	1,015	
Cor	atract an	d other bills	•••	•••	840	

Expenditure.—The annexed statement shows the total expenditure incurred up to 31st December 1901, and also the expenditure during the past year:—

HEADS OF ACCOUNT.	Cı	redit.	Debit.		
	C. Rs.	J. Rs.	C. Rs.	J. Rs.	
To Raj Account	20,000 0	0,8,23,403 0 0		1,786 10 0	
, Capital XX—Miscellaneous		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-,	
Advances Account				3,586 7 6	
" Capital XVII—Stock Account,			4,988 11 0	525 13 2	
" Unclaimed Wages Account		152 2 10		••	
" Exchange Account	12,656 12		12,523 3 0	12,637 0 0	
., Fine Account		55 5 0	•••	•••	
" Security Deposit Account		1,000 0 0	•••	7 070 70 71	
By Capital I (1)—Survey	• • • •	•••	•••	1,379 13 11	
., ,, I (2)—Plant	•••	•••	•••	301 0 5 3,532 7 8	
,, ., I (3)—Establishment,	•••	•••	236 14 4	1,532 7 8 1,76,671 1 8	
", " III (1)—Earthwork …	•••		4 0 4	1,06,650 9 6	
., ,, IV (1)—Large Bridges, IV (1)—Banas	• • • • • • • • • • • • • • • • • • • •	•••	5,993 4 4	1,26,764 4 0	
777 (0) 312 D.: J	•••	***	25 4 0	58,300 7 0	
V(I) Foncing		•••		1,217 9 2	
V (2) Road Crossing				4,740 10 0	
V (3) Mile and are			"	1	
dient posts				106 8 9	
VII (1) Rollost				1,18,023 11 4	
,, ,, VII (2)—Permanent				1 ' '	
way				7 11 0	
,, ,, VIII (1)—Stations and	1	1	1)	
Offices		•••	1,833 7 7	40,488 0 5	
" " VIII (2)—Workshops and	1		İ		
Store Buildings				2,766 15 3	
,, ,, VIII (3)—Staff Quarters,		•••	1,130 15 4	79,931 4 5	

HEADS OF ACCOUNT.	Cre	edit.	De	ebit.
HEADS OF ACCOUNT,	C. Rs.	J. Rs.	C. Rs.	J. Rs.
By Capital VIII (4)—Station Machinery """ """ """ """ """ """ """	•••	•••	127 13 6 110 3 0 0 12 0 707 6 3 322 7 0 105 0 6 3,498 8 6 3 12 0	27,648 5 0 7,729 10. 4 5,068 3 5 1,831 15 3 4,098 11 1 402 11 1 9,390 5 1 37,408 7 10 1,248 1 6 2,007 1 0
Sanitation	•••		398 5 11	1,275 12 \$
Total Rs Salance in hand on 31st December 1901	•••	•••	32,010 0 7 646 11 5	8,35,527 5 0 1,588 9 10
GRAND TOTAL Rs	32,656 12 0	8,37,115 14 10	32,656 12 0	8,37,115 14 10

The total expenditure up to 31st December 1900, including Suspense Accounts, was C. Rs.30,702-14-5 and J. Rs.7,29,711-8-2, and during 1901 C. Rs.1,307-2-2 and J. Rs.1,05,815-12-10.

Concluding Remarks.—It is hoped that the necessary funds may soon be forthcoming to complete this work.

30. Overseers and Sub-Overseers.—Munshi Nathu Lal has charge of the roads and many of the buildings in the City and environs; also the superintendence of the Ram Newas Gardens and distribution of the water in the City, the work in the stone-cutters' yard, &c., and occasional surveying. He has proved himself an attentive, hardworking, useful overseer and has given satisfaction.

Overseers.

- B. Kotu Mull.
- B. Mohomud Hoosain.

Sub-Overacers.

- B. Poorun Lal
- B. Chandu Lal.
- B. Nathu Lal.
- B. Dina Nath.
- B. Ganga Pershad.
- B. Chandi Pershad.
- B. Gulzari Lal.

Sub-Surveyor.

B. Bansi Dhur.

English.

- L. Indur Lal.
- Pt, Bala Baksh.
- B. Ajodhya Pershad,
- L. Chotey Lal.
- L. Johri Lal.
- l. Jai Ram.
- L. Madan Mohan Lal.
- Pt. Sri Dutt.
- L. Nathu Lal.
- B. Het Ram.

The Overseers and Sub-Overseers noted in the margin work under the Assistant Engineers, who report well of them.

31. Office Establishment.—Lala Shiam Soondur, the Head Clerk and Accountant, has proved a hardworking and efficient man.

The other clerks mentioned in the margin have behaved well, but more is expected of them to keep work up to date in compliance with standing orders.

Persian.

- L Anundi Inl, head serashtadar.
- L. Ram Saroop
- L Jamna Pershad.
- Pt Ram Pertab.
- M. Sa-adut Khan.
- Pt. Jai Narain.
- Pt. Ram Narain, storekeeper.
- L Chandu Lal sub-storekeeper.
- L. Bansi Bullabh, sub-storekeeper
- B Shunkar Lal, head draftsman.
- B Lal Chand, draftsman .
- Pt. Sheo Narain, do.

Seth Kanahya Lal, treasurer.

- L. Mohri Lal, sub-treasurer-
- L Misri Lal, do.

II.-BUILDINGS.

32. The statement marked B shows new and other works which have been carried out during 1901 and the expenditure on each. The reports submitted by the subordinates give full details.

The chief works were-

At Jaipur-New barrack for prisoners at the Chandpol jail 98' x 26'.

Mayo Hospital.—Marble floor instead of chunam in the surgical ward (in progress).

5 rooms, each 12' x 9' in the courtyard, east of the female ward.

150 bedside almirahs provided, of shisham wood with mov able zinc sheet trays on the top and cupboard in lower portion.

Superintending-Engineer's out-houses, which were burnt down, have been renewed and covered with terraced roofs on expanded metal as an experiment, also a new dressing-room and bath-room have been provided upstairs.

At the Residency-A court for squash racquets has been built.

33. Shekhawati.—Four new thanas were constructed at Jhunjhuu, Sultana, Singhana and Narhar.

Each thana consists of a central office with male and female hawalats, and quarters for the Thanadar and Munshi, with a verandah in front and steps to the roof.

34. Additions or repairs have been carried out in the following buildings:-

Dispensaries at Mhowa, Gangapur, Hindaun, Chaksu.

At Lalsote a masonry compound wall 459 ft. long built.

Nim ka Thana.—A Contagious ward costing Rs. 202 erected.

Jhunjhnu. - Compound wall and wind vane repaired.

Sri Madhopur,-Whitewashing.

Malpura —Whitewashed and kutcha outhouse erected.

Thanas.-At Mhowa, Wazirpur, Bhurki in Shekhawati.

Cotton press .- At Mandaor.

Rest houses.—At Mandaor, Mhowa, Hindaun, Lalsote, Dehmi, Dudu and Nirana.

Post Office.—Mhowa.

Rahdari.-At Jatwara.

III.—ROADS.

35. There are 300.92 miles of metalled road and 224.13 miles unmetalled in this State.

Appendix C shows in abstract form the expenditure on each road and the average cost of maintenance per mile during 1901.

36. The Roads in the City and Environs-Aggregate 47:31 miles: 39,024 c. ft. kunkur has been collected and the following work has been done:—

Johri Bazar,—Kunkur collected, 32,227 c. ft. ... consolidated, 2,400 ft. \times 33½ ft. Ajmere Bazar.—Kunkur collected, 54,375 c. ft.

... .. consolidated, 2,170 ft. × 53\ft.

Ajmere direction.—Mule 23 to 31. Kunkur collected, 25,671 c. ft. concolidated, 5,570 ft. \times 12 ft.

Dhudda ka Rasta.-Kunkur collected, 552 c. ft.

,, convolidated, 109 ft. × 12 ft.

Huldyan ka Rasta.—Kunkur collected, 4,802 c. ft.

 $_{\odot}$ consolidated, 615 ft \times 20 ft.

Gopi Nathyi ka Rasta.—Kunkur collected, 3.689 c. ft.

conpolidated, 785 ft × 12 ft.

Agra Road -1st mile, Kunkur collected, 26,607 c. ft.

.. con-olidated, 5,810 ft. × 12 ft.

- 37. Naila Branch of Agra Road, 5 miles.—Mile 10 to 10% has been re-metalled, and 33,219 s. ft. of ordinary repair, done.
- 33. Agra Road, 76'16 miles. The portion 0-4 is included in the City Roads. The parapet wall in mile 2 hallbeen raised 2 ft. for a length of 850 ft. to keep off the sand.

In the section miles 4 -55 the following work has been done: -

 Chalinary repeats
 ...
 ...
 ...
 ...
 225.674 s. ft.

 Forthwork
 ...
 ...
 ...
 ...
 225.880 c. ft.

165 guard done; put to bridges.

Kunkur has be a collected for fresh layer -

٠	Mile 41 -	5 (by framsport	carts)	***	•••	10,500 c. ft.	,
	, 21 by	contractor	•••	••		4.634 c. ft.	,
	., 25	• • •	•••	***	***	3,519 .,	
	44 474 pm	71 17 646 1763 646	. • • •	••	•••	10,090	
	. 451 m	15	4.	***	, ••	10,262 ,	
	app.		***	***	•••	10,664	
	. 55		• • •	•••	444	10,532 .,	
						*	
	-			Total	•••	60,171	

Total ... 60,171 ,.

Kunkur collected for repair of earl track: —mile 39 ... 11,679 c. ft. Kunkur collected for ordinary repairs in other miles ... 25,456 ...

The following miles have been re-metalled: -Mule 24, last $\frac{\pi}{4}$ of mile 25, the record half of miles 50 and 53.

The following work has also been done -

 Kananta causes an.—Kunkur collected
 ...
 4.268 c. ft.

 Kunkur consolidated in 2 layer
 ...
 5,090 s. ft.

 p
 ...
 3 p
 ...
 ...
 5.003 p

 Sand removed
 ...
 ...
 42,280 c. ft.

The road crossings have been renewed as under-

Mile 13, $100' \times 2' \times 4'$

", 14, 50 \times 2" \times 4"

 $_{\rm H}$ = 16, 40 \times 2' \times 4

In mile 16 the following has been done at the ramp-

Kunkur collected, 2,380 c. ft.

,, consolidated in 2 layers, 1,101 c. ft.

Earthwork 43,508 c. ft.

Income—Has been of	derived :	as 1	under
--------------------	-----------	------	-------

				TID.	41.	p.
Sale of dry wood	•••	***	•••	24	0	0
,, patras	***	•••	•••	20	8	0
grass and pala	•••	•••	•••	9	0	0
Rent from Dosa rest-house	•••	•••	•••	12	12	6
		Total	•••	66	 4	 6

In the second section of this road, miles 56-76, the following work has been done-

Ordinary repairs	••	***	•••	•••	61,075 s. ft.
Earthwork	•••	•••	•••	•••	37,036 c ft.
Kunkur collected for	repairs	***	***	***	5,244 ,,

,, consolidated miles 56-56½. The patris have been cleared and repaired.

Income has been realised as under-

							Ks.	a.	p.	
Sale	of dry	y trees	***	•••	***	•••	37	10	6	
72	71	pala	•••	***	***	•••	1	ક	0	
					Total	•••	39	2	6	

39. Ajmer Road, 52 miles.—Total expenditure during the year has been Rs. 5,370-14-9, which gives an average of Rs. 111-14-3 per mile.

Kunkur has been collected in miles 8, 18, 20 and 23 in full and in 41 in part. Total collected 66,387 c.ft. Material for dressing collected in mile 41—1,168 c.ft. No consolidation has been done this year for want of water, except the third layer of mile 20 and general repairs of cart track.

			-			
	Total	٠	146,414	749	6	0
on one of the original of the	•••	•••				
General repairs	•••		91,479	440	6	0
Third layer consolidation	•••	***	54,935	309	0	0
**		٠,	s. ft.	Rs.	a.	p.

Earthwork 86,632 c. ft. for Rs.163-3-0 has been done in miles 7 and 37 and wherever necessary. Other works in connection with this road have been—

•					Rs.	a.	p.
Dehmi rest-hous	e, petty	works	•••	•••	20	2	6
Dudu	•••	,	***	•••	8	15	0
Nirana repairs,	whitewa	shing and th	atching	•••	261	1	0
••	•		Total	•••	290	2	6
The income from the	road ha	s been as un	der —		Rs.	a.	р.
Lac	•••		•••	•••	27		_
Dry trees	•••	•••	•••	***	123	0	, 0
Khajur leaves	***	,	•••	•••	3	0	Q
Babul "	•••		•••	•••	13	0	0
			Total	•••	166	0	.0

40. Nirana-Malpura Road, 38.63 miles.—The earthwork was completed in 1900 as a relief work. Some causeways have been metalled this year. Kunkur has been collected but no consolidation could be done this year for want of water. Rupees 673-15-6 have been spent, which gives an average of Rs.17-7-1 per mile.

			Total	***	673	15	G
Other repairs	•••	•••	•••	•••	349	1	9
E≤tablishment		•••	***	•••	200	7	3
On earthwork	•••	•••	38,	812 c. ft.	124	6	6
					Rs.	a.	p.

41. Jaipur-Tonk Road—47'61 miles.—Section I—0 to 15 miles, 19,786 c.ft. kunkur has been collected. Kunkur was also collected in miles 17, 18, 20, 21, 23, 24, 25, 26, 32, 37, 38 39 and 42; and consolidation done in miles 17, 18, 24, 25, 36 38 and 47; in the halves of miles 21, 22, 24, 29, 32, 38 and 43.

The usual rain repairs and making up of patris was carried out.

					Rs.	ล.	p.
The income fr	om the Ro	ad was for b	abul patras	•••	54	3	0
Dry trees	•••	•••	***	•••	56	9	9
			Total	•••	110	12	9

In addition to the whole of the railway works Babu Mukerji had charge of the Bunas-Chambal fair weather road and a few petty works in the Sewai Mudhopur district throughout the year.

On the completion of the Banas Bridge, the central districts of the State were also made over to his charge in September.

In addition to the work alluded to above on the Jaipur-Tonk Road, the following may be noted:—

Banas to Chambal River fair weather road.—New khurrahs were consolidated, miles 58 to 71, and the usual carthwork repairs and clearing were carried out.

- 42. Link Road to Chatsu Station.—About half of this road has been completed and kunkur is collected in the remaining portion.
- 43. Kuthun-Lalsote fair weather Road.—Kunkar consolidation has been done in the khurrahs at the Moril river, Ugriawas and Lakampur.
- 44. Dosa and Sewai Madhopur Road, 82½ miles.—In the first section, miles 1—24 cart-tracks have been remetalled in half miles 2 and 21 each 6 ft. wide. The nullah approaches in mile 19 (500 ft. × 10 ft.) repaired; kunkur has been collected 5,265 c.ft. for repairs.

In the second section, miles 25 to 52, earthwork done 86,928 c. ft. and the road newly done from mile 27, to 28, on higher ground.

A road dam at mile 40 has been repaired with masonry and a drystone floor.

The income was as follows-Rs. a. p. By sale of dry trees 31 9 **Patras** 24 8 Pala grass 0 2 ••• Unripe mangoes 6 0 0 Total 64 1 ...

- 45. Lalsote-Gungapore fair weather road, 26 miles.—Has been repaired where necessary; 50,445 c. ft. earthwork done and patris cleared.
- 46. Gangapore-Malarna fair weather road, 27 miles.—Earthwork done 98,254 c.ft., and patris cleared.
- 47. Buswa.—The roadway of the Delhi Gate and Jahajrampur Gate has been repaired, 4,908 c.ft., drystone pitching and 11,715, c. ft. earthwork.
 - 48. Mandaor and Kerauli Road, 43 miles .- The following work has been done-

```
Ordinary repairs ... ... ... 253,444 s.ft.
Earthwork ... ... 121,446 c.ft.
```

Kunkur has been consolidated half mile, 311 to 32; full miles 30 and 32

Kunkur was collected for ordinary repairs 30,010 c.ft. and for 3rd layer 50,151 c.ft. in the following miles; 13, 22, 30, 31, 33, and 35.

Stone broken to 1" gauge was also collected for mile 13-1,945 c.ft.

The earthwork repairs were done where necessary and patris cleared.

The red-stone slab causeway across the Gumber was taken up before the rains and was reset after the rains. The similar causeway in the Bangunga near Mhowa is arranged for by a contractor.

The income derived from the road-

					Rs.	a.	p.
By the sale of trees	***	•••	•••	•••	131	9	8
Grass and pala	•••	•••	`•••	•••	43	8	0
Babul seed	•••	•••	•••	•••	9	8	0
By the rent for use of	of the ca	useway in R.	Bangunga	•••	50	0	0
By annual rent groun	nd Mano	laor chowki	•••	::.	1	4	0
By the rent of bunga	lows	•••	•••	•••	79	0	0
			Total	•••	314	13	8

49. Hindaun-Gungapore fair weather road, 24 miles.—This road has been cleared and repaired where necessary: 189,100 c.ft. earthwork has been done.

The income derive	d by sale of	n ood	•••	•••	Rs. 16		_
Sale of grass	•••	•••	•••	•••	2	8	0
-							
			Total	•••	18	8	0

- 50. Lanka Ghata Road, 3 miles.—Surface cleared and repaired where necessary. Rock at the summit cut away $(127' \times 5\frac{1}{2}' \times 1\frac{1}{2}')$.
- 51. Branch road to Parao at Mhowa.—Kunkur collected 554 c.ft. consolidated in two layers, length $70' \times 10'$.
 - 52. The following kutcha roads have been made:-

Jaipur to Ramgarh via Chaonr ka Mand, 18 miles; but the sand is so heavy near Jaipur on this line that the road will be of little use unless it is metalled.

Another way was also tried via Naila, 22 miles, 13 of which is already metalled; the nullahs between Naila and Ramgarh were sloped down, the road marked out and distance stones put up.

These roads were prepared in case the members of the Irrigation Commission, or the Hon'ble the Agent to the Governor-General, wished to visit the work (Crosthwaite Sagnr) near Ramgarh.

IV.-IRRIGATION.

53. Number of Works.—The total number of irrigation works in the State under the management of this department is—

_						Rs.
Completed works		•••	•••	•••	•••	176
Works in progress	•••	•••	•••	•••	•••	23
				Total	***	199

The main ducts vary in width from 5 to 20 ft. Total length 732 miles, with 664 miles of distributaries.

A printed statement is kept showing the nature of each work, drainage area, capacity, length and size of distributaries, area capable of being irrigated, duty of water, expenditure and returns up to date.

- 54. Expenditure.—The total expenditure on irrigation works during 1901 was Rs.2,06,187-3-0.
- 55. Revenue.—The revenue for the year ending 31st August 1901 was Rs.2,69,123-6-9. The capital outlay, including the amount spent on repairs up to December 1901, is Rs.60,33,631.

The total return on this outlay is approximately Rs.49,37,678.

The details for the year ending 31st August 1901 are-

			East.			West			Total.	
			Rs.	a.	р.	Ra.	a.	p.	Rs. a,	p,
By water rate		•••	30,897	7	6	32,993	10	9	63,891 2	3
" share of produce		•••	1,04,199	14	3	85,881	4	0	1,90,081 2	3
" Wells		•••	*16	1.1	0	*****			16 14	0
" Miscellaneous		•••	13,692	12	9	1,451	7	6	15,131 4	3
	Total	•••	1,48,797	0	G	1,20,326	6	3	2,69,123 6	9

* Water rate 7 6 9
Share of produce 9 7 3

56. The charges for supervision and guarding were-

					Total cost.	Cost per bigha.
					Rs. a. p	Rs. a. p.
For the Eastern district	•••	•••	***		7,892 1 4	0 3 1
"Western "	•••	***	•••		10.925 15 7	0 3 10
			Total	•••	18,818 0 11	*****

The statement submitted by the Zillahdars Abpashi, Appendices F and G, show the nature of the crops and other details.

The Zillahdars for the Western and Eastern districts, Lala Moonee Lal and Munshi Nund Kishore, B.A., and their Naibs, Lala Hira Lal and Lala Kanhaya Lal, B.A., take an interest their work.

57. Areas irrigated were as follows :-

									;	
				`	East.		West.		Total	
<u> </u>					Big	bis.	Big.	bis.	Big.	bis
By flow	•••	•••	***		36,499	15	41,620	7	78,120	2
" lift	***	•••	•••		1,946	16	1,439	7	3,386	3
In tank beds	•••	•••	***	•••	1,608	11	2,274	2	3,882	16
Khalsa garde	ns.	***	***		•••		13	10	18	10
			Total		40,055	2	45,347	6	85,402	8
The are	as cu	ltivated wer	·e							
					East.		West.		Total.	-
					Big.	bis.	Big.	dis.	Big.	bis
Single crop	•••	•••	bee		36,830	16	42,957	0	79,787	16
Double	***	•••	•••		1,615		102	14	1,718	9
			Total	•••	38,446	11	-43,059	14	81,506	5
The fol	lowin	g is the sha	re of <i>Kha</i>	lsa and	Jaghir :				· 	
					East.		West.		Total.	
					Big.	bis.	Big.	bis	Big	bis
Khalsa	•••	***	***		24,244	. 8	30,536	4	54,780	12
Jaghir	•••	***	***	•••	14,202		12,523	10	26,725	
			•						 	

^{58.} Rainfall.—Attached is a statement (Appendix I) furnished by the Superintendent, Raj Dispensaries, showing the rainfall at different places in the Jaipur State.

Total

38,446 11

43,059 14

81,506

The statement on the opposite page, supplied by the Thakurs of Lawa, is interesting as showing the original cost and results of works carried out in this way.

^{59.} The Rainfall, Expenditure, Returns can be seen at a glance on the diagram on the opposite page for each year since 1872.

^{69.} Lawa.—The Thakurs of Lawa have from time to time been encouraged to make tanks in their land, which comprises an area of about $7 \times 3\frac{1}{2}$ miles only, and they have been assisted by this department as regards advice and surveys, the works being carried out and paid for by the Thakurs.

STATEMENT showing Expenditure and Returns from the Irrigation Tanks constructed by Thakurs of Lawa, assisted by the P. W. D.

Remarks.				Owing to scanty rainfall the tank has not filled to its full capacity, and hence the full area commanded below has not come under cultivation.	All the land below the tank has not been brought into cultivation as yet.	In progress—work commenced in 1900. When the tank fills it will be capable of irrigating about 500 Bighas.	
When constructed.		1811	1877	1896	1897-98	:	
Income during 1901.	Rsn. p.	1,158 15 3	1,988 1 3	465 15 3	674 5 6	:	
Expenditure,	Rs. a. p.	5,400 0 0	13,901 0 0	7,382 15 0	10,651 9 6	8,113 5 9	
Name of Tank.			:	:	•	:	
		:	:	ŧ	i	:	
		Ram Sagur	Dhirat Sagur	Sultan Sagur	Bijey Sagur	Sheo Sagur	
No.		pret `	. 61	က	4	ю	_

Note.—The revenue in this Thikana is taken :—

⁽a) For cereal crops, one-third of the gross produce in this Thikana.
(b) Cotton, tobacco, zira, &c., Re. 1 per Bigha in cash.
(c) Thuk irrigation—five annas per Bigha

61. Ramgarh or Crosthwaite Sagur.—The description of this interesting work has been given in previous reports. Owing to scanty rainfall, the water only filled up to 37 ft., out of 70 ft. All that came however was stored and is being used in irrigation.

The Assistant Engineer, Lala Rup Chand, has in his report (which is attached) described the details of work done.

The sand for the main dam was brought by side-tipping wagons on a portable railway of 16" gauge from a distance of about 2,000ft., the quantity has been 3,305,272 c.ft. and the cost about Rs.4-8-7 per 1,000 c.ft.

Dry rubble pitching has been spread over the inner slope 1 in 4, average thickness $1\frac{1}{2}$ ft. and cost Rs.2-3-8 per 100 c. ft.

The rear slope is to be also covered with rubble pitching, as this is considered to be the best means of preserving the sand of which the dam is made from being injured by wind or other cause.

The upper section of the sand dam has been slightly modified, as it is not thought necessary at present to make the dam above H. W. L. (70 ft.) as thick as it was originally proposed.

A cut stone parapet 15"×12" has been put along both sides of the masonry portion the dam with an iron hand rail.

The main canal 20 ft. wide as far as Parasoli—after that 15 ft. has been completed so as to allow the water to pass freely as far as Dosa—21½ miles, where it tails into the large tank called Gaitolao. The total fall in this distance is 105 ft. The slope of the bed varies from 2½ to 3 ft. per mile, and the rest of the slope has been divided into 27 masonry falls, each with a 2 ft. drop into a water cushion 2 ft. deep. Above each fall rajbahas are taken off right and left for irrigation, the water being controlled by boards sliding in cut stone grooves. 34 new rajbahas of a total length of 20.31 miles from 3 to 6 ft. wide have been made.

Where the canal crosses 2 nullahs in the 5th and 6th miles at Daber and Newar, masonry aqueducts have been provided. It may be possible hereafter to bund up these nullahs and catch any surplus water, and divert it, by the canal, to tanks further on, in the same way as the cross drainage everywhere else is treated. Five inlets with water-way from 10 to 30 ft. have been made this year.

Two bridges have been built 12 ft. wide between parapets provided with steps to the water on one side, and with wooden planks in cut stone grooves for raising the water level when required.

A masonry escape 30 ft. long has been provided at Jaisingpura: the water up to 3 ft. deep is passed down the canal; over 3 ft. can be allowed to escape here safely.

- 62. Kautli Inundation Cut.—During the year the following works were carried out in connection with this project.
- 1. A permanent diverting spur was constructed in the river bed, so as to define its course at the mouth of the cut.

This diverting spur is 1,940 ft. long, about 10 feet high, up-stream slopes 4 to 1, down-stream slopes 2 to 1, width at top 10 ft.

It is pitched up to 6 ft. above the river bed on the up stream side and at its nose.

- The cost of this work was about Rs.3,000.
- 2. The inundation cut 100 ft. wide was cleared of drift sand, and a central drift 20 ft. wide cut down the centre at a cost of about Rs.1,000.
- 3. At the urgent request of the villagers of Bagar, a strong training bund was constructed at the point where the Chirawa Road crosses the line of flow from the cut. The cost of this work was about Rs.3,000.

The result of the rains was disappointing. Only one small flood came down the river, practically all the water of which was diverted down the cut. The rains, which had been light throughout the monsoon, completely ceased by the middle of August.

Such amount of water as came down the river passed down the cut and was absorbed in the sands north-east of Bagar.

The result of this flood has unfortunately been to deposit silt in the cut to a depth varying from a few inches to 1½ ft.

It is hoped that in a good monsoon satisfactory results will be obtained, but the question of silt deposit will always be a difficulty, and the cut will continually require clearing of the sand drifted into it by the high winds of the hot season.

63. Sheodungri Bund—Described in last report.—A morinda core wall has been built across the nullah portion. Owing to scanty rainfall only 20 ft. of water came into the tank, that is, 7 ft. above sluice bed.

```
Work done ... 463,379 c. ft. earthwork at Rs. 3 11 4 per 1,000 c.ft. , ... 65,154 , morinda core wall at ,, 10 1 6 ,, ,,
```

The canals, sluices and a bridge at the main Tonk road are in hand.

- 64. Halolao Bund Newai.—Taken up as a famine relief work last year and mostly done through the Tehsildar of Newai. Nullah gap has been closed up and masoury outlet sluice provided. Two supply cuts and the canal are in hand.
- 65. Rabaota Bund.—Work of raising 2 ft. completed. Masonry core wall extended 1,000 ft.
- 66. Chandlai.—Raising 3 ft. very nearly completed. 529,445 c. ft. earthwork done. Working rate Rs 3-3-1 per 1,000 c. ft. The ducts were repaired also.
- 67 At Sanganir.—The canals were cleared and petty repairs were done also to the Chandlai supply cut from the Amani Sha.
 - 68. Bhagwantgarh Bund-has been repaired at a cost of Rs.146-14-3.
- 69. Khir.—In the south main canal, mile I, a bridge. 3 spans of 4 ft., has been built. In mile 3 two masonry falls provided with 10 ft. water-ways. The road surface of bridge Bhoomiawala in mile I re-metalled and rest-house repaired.
- 70. Bhairon Talao near Thulli.—H. W. L. raised from 5 to 8 ft., the embankment, 2.350 ft. long, raised and extended 115 ft. Masonry sluice provided containing 14 holes for wooden plugs.
- 71 Sainthal Sagur.—Work of raising the bund partly done last year so as to be 10 ft. above H. W. L. completed. Work done 2,031,561 c.ft. Babul seed sown on outer slope. Chowki repaired.

It may be possible to take canals north of Sainthal to irrigate the mal there and south to irrigate the lands of Bapi: the Zemindars at both places are eager for water. The matter is under investigation.

72. Shendoli Supply Cut.—Wheel gear at head sluice repaired; 8 irrigation sluices $(3' \times 3')$ and 29 ft. long provided; 4 new bridges of 3 openings $(3' \times 4')$ built for cart traffic; a new duct made $(1,500' \times 3')$ from Beenawala; dry stone pitching added to in falls Nos. 3, 5 and 7; patries made up and repaired where necessary.

73. Bund Shendoli,—In the Kalota canal, mile 1, a masonry fall 3 ft. with 10 ft. waterway was built, and side sluices, each 3'×3' provided above it, for irrigation right and left.

The branch No. 1 of Khora canal has been lengthened 4,700 ft., and branch No. 4 1,162 ft, each 3 feet wide.

Stones have been erected in the bed of the tank to mark the 8 ft. contour, and the irrigation ducts cleared.

- 74. Bankri Tank.—The supply cut repaired in the rains; 6,076 c. ft. earthwork done.
- 75. Dhund Sagar at Burial near Baudikui—Repaired last year 5,000 ft. long. Completed this year. Total length 6,500 ft., top breadth 6 ft., greatest depth of water 7 ft., height above H. W. L. 4 ft.; a masonry sluice with 14 holes 6" diameter provided.
- 76. Bijey Sagur at Buswah.—Masonry core wall of sluice 181 ft. long has been raised 2 ft.; 4 stone slabs and 7 locks provided at the tilting shutters of the supply cut.
- 77. Gudha Tank.—A new supply cut $1,147' \times 10'$ made. Earthwork done 29,941 c.ft. Chowki repaired.
 - 78. Kund Jatoli. -- Stone slab provided over the steps in sluice.
- 79. Gaitolao.—Sluices Nos. 1 and 3 raised 2 ft., and masonry core walls provided on both sides. Sluice No. 2 and its core wall.
 - 80. Haripura The supply cut repaired; 5,849 c. ft. earthwork done.
- 81. Mora Sagur.—The five escapes, total length 444 ft., have been raised 2 ft., increasing the capacity of this fine reservoir by 119,000,000 c.ft., at an estimated cost of only Rs. 823. In escape No. 1 cut stone pillars with double grooves provided. The front wall, 58 ft. long, of water cushion below No. 2 escape raised 1 ft. Near Toda on No. 2 branch a small bridge, one span of 4 ft., has been built. From branch No. 4, mile 5, a new duct has been made towards Bamanwas, length 12,500 ft., breadth 7 ft., depth 1½ ft. Wooden planks provided in sluices 228 sq. ft. Chowki repaired and silt cleared in canals 222,243 c ft.
 - 82. Kurd Mora. Dry stone pitching repaired on the front and the back, 3,942 c.ft.
- 83. Nazimwala at Bamanwas.—Partly done last year as a famine work. Completed 3,550 ft. out of 8,500 ft.
- 84. Naya Talao.—Masonry core walls added on both sides of the 2 sluices, each 10 ft. long.
- 85. Binouri Sagur.—Escape at north end closed and embankment extended. Earthwork done 4,19,719 c.ft. Parapet of outer wall of sluice repaired.
- 86. Lewali.—Two wooden pulleys provided, and dry stone masonry of the sluice of Kolabah repaired 620 c.ft.

Mori Nawund—dry stone pitching repaired 640 c. ft.

Khatana sluice iron chain and lock provided; escape in mile 3 repaired 28 ft. long with masonry.

A new masonry sluice, 2 openings, each $4' \times 3'$, built to fill the tank of Mangi Lal Shah.

At mile 5 a new duct dug to fill Tajewala tank $3,492' \times 8' \times 1'$.

At mile 4 bridge at Nawund surface remetalled 38' × 9'.

Tiled roof of chowki repaired.

Silt cleared from canal 167,758 c.ft., from Kolabah 43,964 c.ft.

- 87. Nigoh Sagur.—Bank cut $75' \times 9' \times 6\frac{1}{2}'$ to allow passage of well water to irrigate land side.
- 88. Ram Sagur, Malarna.—Embankment lengthened 450ft. at the north end, where masonry escape was damaged, and a new masonry escape provided 150'×2'×3'.

Ladota bridge repaired 2,463 cft. earth work. Chowki repaired with corrugated iron sheet roof, and ducts cleared of silt 46,879 c. ft.

- 89. Jai Sagur.-Embankment repaired 13,586 c.ft., ducts cleared of silt 57,746 c. ft.
- 90. Dhund.—Embankment repaired 8,845 c.ft., ducts cleared of silt 16,536 c. ft.
- 91. Dehulra.-Embankment repaired 70,173 c.ft., ducts cleared of silt 56,465 c ft.
- 92. Durga Sagur,-Embankment repaired 24,500 c. ft., ducts cleared of silt 6,100 c.ft.
- 93. Naglao.—Repaired 57,079 c. ft., silt cleared 25,045 c. ft.
- 94. Baragaon New Tank—Consists of an earthen bund 7,500 ft. long; greatest height 20 ft., top width 8 ft., inner slope 4 to 1, outer 2 to 1. In two places a rammed earth core wall has been put in 700 ft. long and 1,000 ft. long. Two outlet sluices have been provided 1½ ft. diameter at the east end, where the water is 10 ft. deep, and 1 ft. diameter at the west end in 8 ft. depth.
- 95. Moti Sagur.—A masoury core wall has been built in the foundations $280' \times 8' \times 2'$, in superstructure $200' \times 15' \times 1\frac{1}{2}'$ and $38' \times 3' \times 1\frac{1}{2}'$.
 - 96. Ram Talao.-A supply cut dug 2,400' x 5'.
- 97. Benywala at Udai,—Two sluices with 2 holes each 6° diameter have been put; 114,000, c.ft. earthwork done.
 - 98. Johniwala.-Bank widened, 12,500 c.ft. earthwork done, duct cleared.
 - 99. Shamashpur -Three wooden shutters provided.
 - 100. Salempur.—Six do. do.
 - 101. Rondh Jugrampura.—Sluice repaired, a supply cut in progress.
 - 102. Kot Bund.—Supply cut cleared 4,000' × 10'.
 - 103. Hurla Bund.—Supply cut dug one mile long 10'x1', and sluices repaired.
- 104. Madho Sagur.—East canal cleared, length 6 miles—Western canal for 1 mile. Main canal repaired 954 ft. long. Aqueduct No. 19 wing walls extended $(30' \times 13')$ and $(20' \times 13')$.
- 105. Gundal Bund.—A gap repaired 50 ft long, 20,816 c. ft. earthwork done and duct repaired.
 - 106. Bara Talao. Gap repaired, 8,008 c. ft. earthwork done.
 - 107. Hoda Hali.—Ducts and branches repaired.
- 108. Bishun Samand.—Supply cut cleared, 6,308'×2'×2'. Iron sluice repaired, door made to gateway, wooden planks and plugs provided where necessary.
 - 109. Fatch Segur.—Petty repairs done, main duct and branches cleared.

- 110. Kiria Tank, Phaggi.—A small tank about ‡ of a square mile in area. Earthwork completed in 1900. An ordinary sluice with wooden plugs has been built, and a canal 1.02 miles long and 5 ft. wide has been dug this year—Cost Rs.709-5-6.
- 111. New Mandi Tank.—Spreading over an area 10 square mile. Earthwork completed in 1900. Canals 1.06 mile, long 4 ft. wide dug, and ordinary sluice with wooden plugs built this year. The old cart track leading to the village having been submerged, a " nath" or partition bund with a pucca culvert to connect the divided water is being made.
- 112. Pachala Tank.—Area 13 square mile, ordinary sluice provided and two canals made. One 0.36 mile long 5 ft. wide, the other one mile long 4 ft. wide.
- 113. Churu Sagur.—A masonry core wall 1,700 ft. long and earthwork on both sides of it has been completed. A masonry sluice worked by an iron valve 15° diameter has been provided. It is proposed to raise this tank, and the necessary surveys have been made. Expenditure on this work Rs.9,209-10-6.
 - 114. Dholai Tank.—A masonry sluice with plug openings built and canals being dug.
- 115. Bodia Tank.—Two pucca sluices built—one worked by an iron valve 1 ft. diameter, the other by wooden plugs. Two canals dug, each 4 ft. wide, one 0.52, the other 0.34 mile long being dug. Expenditure Rs.898-7-0.
- 116. Govindi Tank.—One iron outlet valve provided to 8" diameter to serve for irrigation as well as to empty the jheel above it.
 - 117. Bagait Tank.—An ordinary masonry sluice built worked by wooden plugs.
- 118. Sahadra Tank.—Two sluices worked by wooden plugs have been built, and ducts from them, each 4 ft. wide and 0.36 and 0.18 mile long, have been made.
- 119. Renwal Tank—Has been completed. This was one of the works carried out as a famine relief work. Cost Rs. 7,755-7-9.
- 120. Augur Sagur near Mozabad.—Made this year. An earthen bund 1.22 miles long, 8 ft. wide at top, inner slope 3 to 1, outer 2 to 1, to hold up 4 ft. of water over sluice—a masonry sluice with plug openings has been built.

It can be filled from the Chaparwara canal if it does not fill naturally. The supply cut and ducts are in progress. Expenditure Rs.1,476-7-6.

121. Chaparwara Supply Cut.—To divert water from the river Mashi to Chaparwara Sagur. As stated in the previous report, three alternative proposals were drawn up. The one adopted consists of digging the canal 30 ft. wide and 2 ft. deep to avoid rock cutting. Last year the upper 2 ft. of earth was removed simply to afford work for the famine-stricken people.

The canal has now been dug to its proper bed, and the last 7 miles, nearest to Chaparwara Sagur, are ready as far as earthwork.

The canal crosses two nullahs of Gagru and Kachnaria; the former has been closed by a masonry face wall, backed by earth, to catch the water this year. The bed of the nullah is 6 ft. below the bed of the supply cut, and though the work was completed before the rains, the water never rose in the nullah above 5 ft. owing to the failure of the rains. Total expenditure this year Rs.5,431-11-3.

122. Hingonia Weir on the river Bandi.—This was not ready in time to fulfil its object, viz., to divert the flood water to Sahadra tank, and eventually it is hoped to other tanks also.

It is being raised 3 ft., and the proposal to make a large storage reservoir here is under consideration.

The site is a good one, and the work will afford relief now and be profitable hereafter. Total expenditure this year, Rs.1,950-6-0.

123. Kberi Weir.—Is at mile 6 of the Chaparwara South Canal, where it crosses the river Mashi. Hitherto a temporary sand bund, after the rains, was annually put across the river-bed to lead the canal water across; in order to do away with the delay and the annual expense, a permanent weir has been built across the river Mashi. Length 318 ft., 4 ft. high. No rock was found here in the bed, so a broad shallow foundation has been tried 6 ft. below the bed surface of the river—protected by heavy pitching of rubble 2 ft. deep over a consolidated kunkur bed 15 ft. broad 1 ft. deep. Rough blocks of masonry about 10 ft. long, 2 ft. wide, 5 ft. high, sunk 3 ft. in the bed of the river, have been built along the toe, to keep the rubble pitching in its place.

The work was begun in May 1901, by removing the temporary sand bund after irrigation ceased. Much difficulty was experienced in getting in the foundations owing to the water in the river bed.

During construction five small floods occurred; the first three passed over the incompleted work but did no damage. When the last two floods came the weir was high enough to divert some of the water down the canal to fill tanks below, which is one of the objects in view.

The work was done in time for the winter irrigation. Unfortunately there was no water in Chaparwara this year. Total expenditure this year Rs.4,258-6-6.

- 124. Fariadpura Koond.—This is a masonry cistern 25 ft. in diameter, filled by a duct of the Chaparwara Canal. Water is raised 16½ ft. from the cistern by "charas" to irrigate the land at the higher level. There is room for 10 charases to work at the same time. Total expenditure Rs.827-11-0—This year Rs.109-6-0.
- 125. Kala Talao Nirana.—The wooden plug outlet arrangement has been replaced by an iron screw valve of 9" diameter, with gun metal faces with screwed raising rod.
- 126. Moti Sagur Churu.—10 ft. of masonry core wall has been added to the sluice on either side.
- 127. Akheypura Branch (Kalegh Sagur Canal).—The lower bank is being strengthened—6 miles done—work in progress. Expenditure Rs.737-9-3.
 - 128. Chaparwara Canal South low level.—The lower bank strengthened for 6 miles and repairs done where required.

Do. North low level.—Lower bank strengthened in 5 miles and repaired where necessary.

- 129. Kalegh Sagur Canal.—Lower bank strengthened in six different miles.
- 130. Maintenance.—The charges for repair and guarding of tanks this year in the district under Lala Indra Sahai, Assistant Engineer, only amounted to Rs.192-7-3.

No permanent beldars were kept. All the improvements of the Chaparwara and Kalegh canals noted above were done by means of task work. The expenditure has been carefully supervised, and it is hoped will lead to economy and greater efficiency in future.

131. Bhairon Sagur, Chandsen.—Alluded to in the last report as having been started as a relief work, about 7 miles north-east of Malpura. The bund is 1.34 miles long; will catch the drainage of 60 sq. miles. Capacity 524.6 millions c. ft. at 20 ft. deep, spreading over an area of 2.29 sq. miles, and when full capable of irrigating 4,371 acres.

There will be a masonry core wall 3,900 ft. long, of which 2,300 ft. has been made, and the earthen bund, about 2,000 ft. long, on either side of the nullah nearly ready. Earthwork done during the year is 1,097,238 c. ft.; up to date 5,589,652 c.ft. at Rs.4-4-6 per 1,000 c. ft.; masonry work done 54,912 c. ft. at Rs. 15-5-9 per 100 c. ft.

Detail of Expenditure.

	I [*]	EMS.			During	190	١.	Up to	date	٠.
		•						1		
· ·	•				Rs.	a.	p.	Rs.	a.	p.
· 1.	Earthen bund	•••	•••	•••	5,892	2	0	21,528	11	9
2.	Masonry	•••	•••	•••	9,139	14	0	10,434	14	6
3.	Low-level outlet slui	ce	•••	•••	•••			o	8	6
4.	Irrigation canals	•••	***	•••	.731	15	0	2,820	10	3
5.	Compensation for we	lls	•••	•••	•••			500	0	0
6.	Sheds for workpeople	·	•••	••• {	587	7	6	1,719	8	6
7.	Famine expenditure	•••	•••		•••			23,593	14	10
8.	Tramway, portable	•••	•••	•••	162	9	6	162	9	6
9.	Contingencies		***	•••	3,388	4	4	4.636	8	10
10.	Material in hand	•••	•••	•••	2,367	8	0	5,154	10	ġ,
			Total		22,269	12	4	70,552	0	11
	· · · · · · · · · · · · · · · · · · ·									

- 132. Rampura Tank.—A village tank near Rajmahal being raised and extended. Capacity 3.29 millions c. ft., length 0.62 miles, area when full 30 acres, depth over sluice 6.ft., capable of irrigating 82 bighas.
- 133. Kalanada near Panwar.—A new work started last year as a relief work. Capacity 8.75 millions c. ft., length 1.22 miles, depth of water 5 ft.

This year a sluice of masonry worked by wooden plugs has been built and two canals dug each 5 ft. wide and each 0.42 mile long.

- 134. Gopipura.—A small tank near Panwar started as a relief work last year. A masonry sluice with wooden plugs has been built and two ducts each 5 ft. wide, ·28 and ·18 miles long, have been made.
- 135. Utarna, near Panwar.—Two ducts each 5 ft. wide, ·42 and ·26 miles long, have been dug.
- 136. Hashapura.—A masonry core wall in three places, total length 600 ft long, has been built. The expenditure this year has been Rs.1,686-8-6.
- 137. Bainra Tank, near Toda Rai Singh,—Completed; expenditure this year Rs.699-1-6.
- 138. Khuara.—An old village tank raised and extended; sluice and ducts in progress. Expenditure this year Rs.3,533.
- 139. Napolao, at Bagri,—An old village tank raised and extended, and supply cut made from a nullah adjacent. Rs.1502 4-9.
- 140. Sawuntgurh Bund.—Masonry core wall 200 ft. long has been completed. Earth-work repaired; expenditure Rs.669-0-3.

- 141. Punwar Bund.-Repaired where necessary. Rs.590-3-9.
- 142. Nasrida.—This bund was raised 3 ft. and extended 900 ft.; 50 ft. masonry core wall has been added and the old core wall raised 3 ft. Expenditure Rs.1,729-10-6.
- 143. Gangolao.—Two sluices with wooden plugs have been replaced by iron sluices of 9" diameters.
- 144. Rupahaili.—In two places the masonry core wall has been added 134 ft. and 300 ft. in length. The proposal to raise this tank 2 ft. has been sanctioned.—Expenditure Rs.657-15-11.
- 145. Tori Sagur Canals.—The nullah near Tori used sometimes to bring much silt to the north main canal. This nullah has been bunded up and diverted at a cost of Rs.692-15-6. One bridge has been built over the L. L. South Canal near Jalalpur.

Low Level North Canal.—In 1900 this canal was breached in several places by the sudden rush of water brought by hill streams, which are intercepted by this canal. The gaps were temporarily closed to allow of irrigation, but proper repairs have been started—much remains to be done. The expenditure, Rs. 1,851-0-3, this year has therefore been high.

The Rampura nullah escape was washed away in 1900, by the sudden bursting of a village tank above, has been repaired.

Rs. 324 were spent on maintenance of these canals, but it is hoped now that they have been put under Assistant Engineer Lala Indra Sahai, there will be a marked improvement.

- 146. Turbines, worked by the water as it leaves the Tori Sagar through the sluices have ground 1,400 maunds 19 seers of grain for Rs.353-5-10, against an expenditure of Rs.184-12-0.
- 147. River Mashi South Supply Cut.—This canal was widened from 15 to 30 ft. in 1900 as a relief work, and its full supply level increased from 3 to 5 ft. All the masoury works, sluices, &c., had to be altered to suit the increased depth of water.

. One bridge has been widened and 28 side sluices have been improved and the face walls raised.

The work of altering one escape, 4 side sluices, 10 well ducts, 3 syphons, 4 aqueducts and that of 4 new sluices is in hand. Expenditure incurred Rs.4,603-11-6.

V.—MISCELLANEOUS PUBLIC IMPROVEMENTS.

148. Water Works.—Water raised.—During 1901 the amount of water pumped into the reservoir 110 ft. high was as under:—

By the	e former new well	engines	•••	•••	Revolutions. 6,736,307 1,565,689 841,134	Gallons. 181,880,289 108,032,541 12,662,010
				Total	•••	302,574,840
The daily a	verage i	or the pas	t three yes	ırs bas bee	n—	
						Gallons.
1899		•••	•••	•••	•••	817,560
1900		•••	•••	•••	•••	747,159
1901		•••	•••	•••	•••	898,972

Consumption per head, taking the population at 1,60,000, is 5.18 gallons. Cost of raising the water has been—

					Total.	Cost per 1,000 gals.
					Rs. a. p.	Rs. a. p.
By forme	r engines	•••	•••		27,993 6 7	0 2 51
" new	12	•••	•••	•••	8,139 0 3	0 1 28
" weil	21	•••	•••		2,499 7 11	0 3 12
			Total	•••	38,631 14 9	1

If all charges for distribution in the city, repairs, clearance of reservoirs and other items are included, the cost comes to Rs.44,819-6-3 or 2.37 annus per 1,000 gallons.

Detail of charges.

		•	Ū		Rs.	a.	p.
Labour on all eng	gines co	mbined	•••	•••	10,087	0	8
Fuel	•••	•••	•••	•••	27,490	7	10
Petty materials	•••	•••	•••	•••	1,054	6	8
		Total	***	•••	38,631	14	2
		Fuel cor	ısumed.				
					Mauno	is.	
Coal	•••	•••	•••	•••	28,199	•5	
Wood	• • •	•••	•••	•••	8,808		

The cost of coal has been 14 annas per maund throughout the year. The price of wood (babool) 32 rupees per 100 maunds.

				Rs.	а.	·p.	
The cost for 12 months of clear	ring filter be	ed was	•••	29	13	11	
Clearing service reservoir	•••	•••	•••	39	6	6	
" boilers and flue	es	•••	•••	40	8	1	
" water nieters	•••	•••	***	27	13	5	

Repairs done to the pumping engines and boilers, and the works carried out in the workshops attached to the works, are all given in detail in the report submitted by Mr. Dominy, the Engineer in charge, who reports well of his assistant, Mr. E. Baker and all the establishment under him.

149. The work done by the engines—is shown in the statements attached. The diagrams show the maximum and minimum heights of water in the reservoir, and the rain-fall during the year and consumption of water. Owing, however, to a large quantity of silt having accumulated in the bed of the reservoir, the height of water shown does not fairly represent the quantity available.

d Rainfall. HES

25	30	35	40	45	50	55	60	65
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2,499 7 11 13 Ė Totul. 2 20 314 10 Rs. 370 23 œ 438 438 2 459 2 **5** C 60 ဗ ¢, ż ₩ ဘ Labour 0 12 10 ä 0 13 0 12 10 0 23 ମ୍ଲ टा 00 0 5 33 K3. 174 C 33 82 83 23 23 88 0 0 0 0 0 0 10 0 0 9 Ç 0 0 å Sundries. 2 == 0 13 Ť1 6 ဖ æ 0 13 4 23 13 53 9 J.C 8 12 **\$** C 0 C <u>₩</u> 23 22 2 92 MON'THLY REPORT OF WATER, WELL ENGINE, FOR YEAR 1901. ċ 0 C 0 0 C 0 0 0 0 0 0 0 0 Amount. æ C1 GI 7 9 0 œ 2 #1 ∞ œ 4 <u>F</u>. 10 2 œ 6 258 353 392 375 376 2,114 2,416 430 2 10 295 40.4 356 449 429 Conl. 0 ä C 1 11 Amount. 0 15 0 15 0 15 0 15 卢 0 ဗ 2 5 C1 8 Rs. 134 19 22 21 77. 2 2 co 3 co 99 99 60 22 69 99 420 Wood. Gallons pump-ed. 27,315 52,095 44,775 40,455 10,050 32,550 2,115,720 2,360,295 1,674,585 2,179,230 12,662,010 1,854,720 2,239,320 Number of strokes. 111,639 141,048 123,648 157,353 249,288 3,533 2,170 2,670 145,282 2,985 2,697 844,134 1,821 Hours work-1,3314 2313 C.I 9 1643 224 ₹661 237 251 : : : : : ፥ : : : : : Months. <u>:</u>_ Total January ... : : October ... : August ... September November December February March June April July May

MONTHLY REPORT OF WATER, NEW ENGINE, FOR YEAR 1901.

Months.	Hours working.	No. of strokes.	Gallons pumped.	Wood.	Amount.	Conl.	Amount.	Sundries.	Labour.	Total.
					Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
January	733	77,331	5,335,839	138	41 2 7	267	233 10 0	14 2 1	202 4 0	494 9 8
February	7.	79,190	5,464,110	183	58 9 0	262	229 4 0	14 2 0	224 14 0	526 13 0
March	181	183,758	12,679,302	288	92 2 7	623	545 2 0	20 0 0	280 5 0	937 9 7
April	2171	236,158	16,294,902	358	114 8 11	800	700 0 0	32 2 0	293 11 6	1,140 6 5
May	280	303,220	20,922,180	433	138 9 0	1,010	883 12 0	40 9 6	358 9 8	1,421 7 8
June	. 275	292,717	20,197,473	388	124 2 7	978	855 12 0	34 5 0	332 2 0	1,346 5 7
July		12,840	885,960	15	4 12 9	<u>.</u>	36 12 0	1 2 9	27 11 3	70 6 9
Angust		4,372	301,668	10	33	13.20	11 13 0	0 4 9	13 8 0	28 12 10
September	251	24,527	1,692,363	63	20 2 7	76	82 4 0	2 9 10	85 8 3	190 8 8
October	. 177	195,208	13,469,352	293	93 12 2	658	575 12 0	20 3 6	303 1 2	992 12 10
November	1204	130,896	9,031,824	226	72 5 2	437	382 6 0	19 4 6	311 13 5	785 13 1
December	241	25,472	1,757,568	73	23 5 9	100	87 8 0	2 4 3	90 11 2	203 13 2
	•	-								
Total	1,460	1,565,689	108,032,541	2,468	789 12 2	5,284.20	1,623 15 0	8 1 106	2,524 3 5	8,139 0 3

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01 0 0,01 607,1 1,616 10 . 9 1,719 10 10 Total. ૡ૽ 13 ဗ 3,615 11 1,894 12 2,147 11 3,257 11 ó 2,935 **183.** 27,993 2,125 2,205 2,267 2,408 10 10 0 å က ∞ C ဗ 9 Labour. ë 12 4 0 C Ξ 0 Ö C. 580 Rs. 562 43.4 518 538 7,388 509 500 692833 551 834 767 0 ~ 0 ဗ õ 0 0 ċ ţ တ္ æ అ Ç Sundries. ÷ [] ਜ਼ੇ ij ĸ) 6.3 0 ~1 13 4 10 0 4 ဗ 776 103 R3. 60 55 9 9 2 56 5 S 87 50 48 0 0 0 C 0 C Þ 0 0 0 C 0 0 ÷ MONTHLY REPORT OF WATER, OLD ENGINES, FOR YEAR 1901. Amount. 7 0 S æ C1 CI C1 1,878 10 అ 10 1,023 **K**g. 1,555 | 1,360 17,934 2,777 2,429 2,133 1,516 1,455 1,273 891 999 1,509 ,582 1,381 1,719 1,501 1,170 2,147 1,767 20,499 2,438 910,1 1,142 1,728 Con. ဆ <u>r-</u> Ç1 က 0 Φ 2 ċ 10 Amount. 0 ~ ** 0 0 C Ç, 0 0 3 0 ပ æ 1:1:1 136 1.16 122 208 123 133 1,894 R. 151 199 251 27 151 623 5,920 173 4.52 785 029 151 397 427 382 387 411 472 Wood. 24,678,216 21,669,498 22,076,739 10,106,097 14,992,938 14.267,205 14,592,609 14,451,801 9,084,906 9,918,882 13,189,554 12,551,841 181,880,289 Gallons pumped. 802,574 535,252 464,883 \$100,1.10 540,467 Number of strokes. 188,502 385,411 817,657 336,478 367,366 555,294 6,736,307 528,415 Hours work-ing. ₹**67**3 3354 6873 7033 452<u>1</u> 4201 410 168 187 290 317 5818 482 : : : : : : : : Months. Total : : : : : September November December October February August January March April June May July

•						7	Νo.
150. Taps erected—for Raj	or public use	•••	•••		·		17
- ,	Private "	•••	•••			1	Vil.
The total now in use for	Raj or public	is	•••		•••	٠ 5	909
And for private	•••	. •••	•••		•••	3	18
						_	
			Total		•••	1,2	27
			•			-	
					Rs.	a.	p.
151. Income.—Average mor	nthly from priva	ate taps	is	•••	231	1	11
Expenditure.—Averag	e monthly for s	upervisi	on is	•••	145	0	0

152. State of the Reservoir.—On the 1st January 1901 the water rose to 23 ft. 10 in. above outlet valve, but as 12 ft. 6 in. of silt had accumulated in the bed of the reservoir, the actual depth of water was only 11 ft. 4 in. Attention was frequently called to the deficiency of the water supply, and efforts were made to reduce the consumption and waste.

On the 18th May the following restrictions were imposed; the taps in the following quarters of the City, Top Khana Dais, Biseshurji, Modi Khana, and Purani Basti were kept open from 4 to 10 A.M. and from 4 to 9 P.M. only.

The taps of the Chowkries, Ghat Darwaza and Ram Chunderji were opened when the above were closed and vice versa.

The taps of the Palace, Hathroi Kothi, Atish, Ilawa Mahal, and Mayo Hospital, the Kotwali, the central jail and Lausdowne Hospital were left open day and night.

The taps at the Cotton Press were opened only when water was required for working.

An exception was also made in the case of the Dharamsala of Maji Sahiba near the Chandpol and in a private carpet factory.

In the meantime the level of the water fell to 17 ft. 1½ in. when the rains came. The total fall registered for the year was 15.55 inches; the level of the water rose to 20 ft. 6 in.; deducting the depth of silt it left only 8 ft. water in the bund, and this soon became so foul that it was almost undrinkable, and it was only by letting it run out into the lower pool and mixing it with a large quantity of filtered water that it could be used. No rain has fallen at Christmas, and it is almost certain that water from parts of the city will have to be shut off.*

In order to prevent silt from accumulating in front of the outlet well and blocking the pipes in future, a rubble stone bund is being put round an area $300' \times 50'$ and inside this area wells with perforations in the side are being sunk.

It is hoped the rubble stone (which is covered on the outer side with bujri) will allow the river water to percolate freely through it so that no head of water will be lost, while silt will be prevented from coming in front of the outlet well. It is also hoped that the wells will admit of the spring level, below the silt, being tapped; they will be connected with each other and more can be added if found advisable.

^{*} Water was shut off from two thirds of the city on the 1st February 1902.

APPENDICES.

APPENDIX A.

ABSTRACT of Receipts and Expenditure on the Public Works Department, Jaipur State, during the year 1901.

	Remanks.	entered to the second s		
Net Expenditure.	Rs. n. p.	•	17,559 14 1 4,995 6 5 16,992 5 9 86,440 8 10 70,732 5 0 46,792 15 11 943 14 1 2,56,187 3 0 61,083 1 1 3,053 4 3 66,981 8 2	21,915 9 11 24 13 0 284 1 9 206 10 0
Net Receipts.	Rs. a. p.	37,651 6 5	 5 5 4 1,827 5 6	5,90,595 15 1 47,834 7 8 110 0 0
Expenditure.	Rs a. p.		17,678 2 3 5,026 14 5 21,643 2 2 86,516 12 4 77,000 8 8 48,818 3 10 5 9 1 2,67,145 15 9 61,745 1 1 3,053 4 3 67,081 9 8	61,216 5 2 4,930 8 3 4,34,253 4 2 2,837 0 0 1,816 15 4 380 0 0 2,537 14 3
Receipts.	Rs. a. p.	37,651 6 5	118 4 2 31 8 0 4,650 12 5 76 3 6 6,268 3 8 2,025 3 11 10 14 5 10,958 12 9 662 0 0 1,827 5 6 100 1 6	6,51,842 4 3 62,764 15 11 4,12,337 10 3 2,812 3 0 1,532 13 7 490 0 0 2,331 4 3
l Ilends of Account.		Balance on 1st January 1901	Original works buildings Do. communications Niscellaneous public improvements Gity waterworks State Cotton Press, Jaipur, Capital Account Do. Mandaor. do Irrigation works Immrut works Imstruct works Establishment Total	Raj Treasury Public Works Department Do. Imarut works Miscellaneous advances Gity water supply revenue Rain Newns Garden do Agar Kothi do Ice do
Serial No.			110000000000000000000000000000000000000	

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Monds (sale of dry trees, (cc.) revenue Sale of Jainur Portfolios	Fire Account	True Arcount	Unclaimed wages	Security deposit	Profit and Loss	e i	ncies		ly shook	Ram Nomes Carden and the L	Theft of let attent; the in the control of the cont	There of late Munshi Lai Singh	Torl Sagur turbine revenue	Their of Vafati, carpenter	Keep of horses for the Executive Engineer, Inipur	Travelling, &c., expenses of officers in Eastern Dist	Cricket play in Ram Newas Garden	Inter-departmental transfers	ing a tracing of Firman Shahi for	Lial	Pensions	Queen Victoria Memorial Fund	Printing map of Jaipur State	Repairing boat for Rawaljee's Bund	Printing band programme cards	Supplying maps to the Raj Pothikhana	Expenses connected with the Irrigation Commission		Cost of wooden logs (lathas) Pachrung, Rahdari Ghora	The control of the co	Mana of the Johnn State for the manufactor of the	cil, Jaipur	Total		Total	Balance on 31st December 1901.	GRAND TOTAL

APPENDIX B.

STATEMENT of works executed in the Public Works Department, Jaipur State, during the year ending 31st December 1901.

-	Remarks,		=								-		•		
	Total,	Rs. a. p.	13,662 13 9	8,858 9 0	2 2	7.	21,423 15 10		6,986 14 5	14	\$ 01 088 } -1,000 0 0	9 1	5,081 5 5	2,030 11 9	(192 14 11
Expenditure.	Amount expended from 1st January to 31st December 1901.	Rs. n. p.	1,197 7 7	:	78 12 0	<u> </u>		· - 1	14 7 8 1 14 8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	125 7 0	152 9 3	=======================================	4,611 13 8	562 13 1	97 3 5
	Amount expended up to 31st December 1900.	Rs. a. p.	12,465 6 2	8,858 9 0	56,208 14 5	2,309 14 0	21,377 0 6	-	, 5,028 12 6 6,972 6 2	1	698 1		469 7 9	1,467 14 8	95 11 6
	Amount sanctioned.	Rs. a. p.	12,540 5 9	8,643 0 0		2,314 0 0	23,080 0 0		4,765 0 6 7,494 0 0	391 0 0		0	17,218 0 0	0 0 998'1	. 391 0 0
	Name of works.	ORIGINAL WORKS.—BUILDINGS.	Works for buildings of Rao Bahadur Babu Kanti Chunder Mookerii, C.I.E	Dispensary building at Mhowa New work side of old inil.	Jaipur	Thana buildings at Amer, Chandwaji, &c	Jail building at Hindown	Male and female hawalats at police station, Mandawar	Jail building at Gangapore Thana buildings at Bhurkey, Khandela, &c	Pucca Tribara in mile 14 of Mandawar and Karowli Road	Rest-houses in the Western district	Hindown Post Office pucca verandah, with slab roof instead of thatched one	Thana buildings in Shaikhawati	Office outperincement Engineer's Drawing	New pucca house for knansama of flindown rest-
	Serial No.		-	ବଃ ଖ		4 ro	9	7	ထ အ	10	11	12	e -	#1 ;	g.

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6,249	25	8,368	308	147	142	1,49,314	1,48,263			9,336	4,424	1,574	17,021	1,259	1,163	150	442 32,174	77,530
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6.044	25	3,491	308	147	142 383	17,625 —65	17.559			734	198	220	767	Diti	39	:	437 10	3,574
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204 11	•	4,876 10	•	•		1,31,703	1,30,703			8,601	4,226	1,353	16,253	1,254	1,131	150	$\begin{array}{c} 4 \\ 32,163 \end{array}$	73,955
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,—	peepns		port Corps		Adding Agin noor under saiban at Customs houses at Dhankia, Jatwara and Jagatpura		Total		ORIGINAL WORKS, COMMUNICATIONS.	Fair weather road from Gangapore to Bharoti	Jaipur-Tonk road Pucca link road from Amagarh quarries up to	Road	Koad from Naraina to Malpura.			Road from Thir station to Ag	New road from Amer Chauk to Madhobilas.	Carried over
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APPENDIX B-continued

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	Леманкв.									
	Total.	Rs. a. p.	77,530 4 3	80 12 5 1,226 1 10	113 11 9	78,950 14 3			11,379 15 8 3,329 13 11 1,462 15 9 25,916 3 5 29,177 4 3 9,509 3 4 4,554 9 10 5,997 9 6 5,997 7 2	2 =
Expenidture,	Amount expended from 1st January to 31st December 1901.	Rs. a. p.	3,574 12 5	80 12 5 1,226 1 10	113 11 9	4,995 6 5			832 6 10 74 15 0 25,916 3 5 29,177 4 3 9,509 3 4 4,554 9 10 5,997 9 6 8,019 7 2	9 00
	Amount expended up to 31st December 1900.	Rs. a. p.	73,955 7 10		:	73,955 7 10	`	•	10,547 8 10 3,254 14 11 1,206 6 3	91 2 0
	Amount sanctioned.	Rs. a. p.	:	90 10 8	1,084 0 0	•			21,493 0 0 4,614 0 0 2,715 0 0 37,948 0 0 12,208 0 0 2,014 0 0 11,331 0 0 8,039 0 0 68 0 0	0
	Name of works.		Brought forward	Making a kunkur road 6 ft. wide from main road up to Kothiyar Hawa Mahal stable Raj Mahal Malpura Road	Jair station road.	Total .::		REPAIRS TO COMMUNICATIONS.	Gangapore fair weather road. Deoli fair weather road. Deoli and Raj Mahal road. City and Camp Roads. Jaipur-Tonk Road. Lalsote Road. Ajmer Road. Ajmer Road. Lanka Ghala Road to Karowli	Repairing kutcha road from Sheodaspura to Chandlai.
	Serial No.	-	•	11 21	2					Ξ,

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	Station	to Fucca culvert on Almer-Jaipur Kond on to Dhawari 17 Repairing roads of two entrance gates at			REPAIRS TO BUILDING	1 Works at Huthroi Kothi	Do. Mayo Hospital	Pett	4 Do. do. Natani ka Bagh	5 Repairs, &c., to Albert Hall and works fo	6 Repairs to district dispensaries	<u>ج</u>	B Petty works at new fail. Jaipur						4 Corrugated sheet covering, &c., at Jaipur 6 Dead-house at old iail. Jaipur (male, and		<u></u>	Carr
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REMARKS.

Serial Nc.

∵e 4 9 er o 3,42,650 15 11 င်း လ ည ၂ 0 9 11 **60** 00 25 Rs. 3,42,078 -3,732 1 Total. 3,46,383 1,308 22 267 1,189 244169 25 723 800 from 1st January to 31st December 1901. 10 00 00 6 1 11 11 Amount expended Amount expended ეო 4 ထပ္ထ Rs. a. l 16,488 12 -3,732 12 2 2 0 Expenditure. **62** 00 1,189 153 1,303 20,725 —3,732 169 25 723 22 267 5 63 up to 31st December 1900. Ø 10 ည်တ 2 APPENDIX B—continued. . E E 4 & 3,25,658 10 3,25,658 10 : : : :::: :::: ::: :::: Rs. 3,25,589 а. Сі 0 00 **&** 0 sanctioned. Amount ::: 262 350 :::: 1,060 309 141 Rs. 186 Engineer's bungalow ... Making expanded metal and concrete roofing of outhouses at the Superintending Engineer's bungalow, White and colour washing, &c., at Jaipur dâk bungalow, Whitewashing and repairing plaster of Sambhar Chowki at M howa, repairs to...
Works at the Superintending Engineer's bungalow ...
Whitewashing, &c., at Deoli Escort Lines at the Resi-::: : : : Repairing mud walls of stable at the Superintending Putting barbed wire, &c., on kutcha compound wall the Executive Engineer's bungalow ...
Petty works at the Residency, Jaipur ... : : : Total Brought forward Name of works. Raj House at Mount Abu denoy, Jaipur ... Muharrir's quarter at Mandawar Residency hospital Jail building at Nimka Thana

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	1,34,708	7,891	2,134	3,949	1,879	3,651	915	3,080	-2,978	16,927	1,354	34,511	9	1	125	1,097	:	:	:	17,957	:	1		4,744	-17	153) 	634	26		2,35,749
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	1,49,743	9.803	2,454	4,236	2,510	3,573	4,167	,	:	16,827	2,347	35,103		:	120	1,825	50,964	1,360	4,927	25,102	61,809		:	3,548	:	301		1,221	351		•
MISCELLANEOUS PUBLIC IMPROVEMENTS.		watering trees, Superintenting Lugineer's cungator	- A	Poor house near the Mayo Hospital, Jai	Rund in what behind Seth Anant Ram's garden	Sinking a pucca well to the west side of	Mandawar Cotton Press petty works	Toise Chate Delluce	only diameter than the second	Rewari and Phalera Railway	Executive Engineer's bungalow garden maintenance,	Cleansing the city of Jaipur			of stone blocks in the middle of road	Ä					Ram Nowns Garden	<u>~</u>		Filling trench outside of Pandit Jai Nathii Atal's field	at the railway station, Jaipur		<u> </u>		Clearing Jhalra well at Naraina		Carried forward
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APPENDIX B-confinued.

	Вема йк э.		
	Total.	Rs. n. p. 5,45,480 3 6 7 0 188 14 3 4,299 6 10 191 9 3 7,492 7 9 11 191 7 11 11 11 11 11 11 11 11 11 11 11 11	5.0
Expenditure.	Amount expended from 1st January to 31st December 1961.	Rs. n. p. 1,09,863 0 8 -2,844 14 11 7 13 6 87 8 9 87 8 9 17 0 0 17 10 0 19 7 11 191	23 5 0
	Amount expended up to 31st December 1901.	Rs. n. p. 2,35,749 3 6 —3,007 8 9 9 7 4,211 14 1 1 188 14 3 7,492 7 9 18 13 1 337 4 10 18 10 0 0 11 18 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Amount sunctioned.	Rs. a. p. 252 0 0 4,299 6 10 7,492 7 9 133 0 0 191 14 0 330 0 0	. 0
	Name of works.	Sinking corrugated sheet bachri in well near the crossing at Natani ka Bagh Sinking corrugated sheet bachri in well, mohalla Khoomran, Choukri Topkhana Hazoori Repairing fence of date plantation near Waterworks Whitewashing and petty repairs to lunatio asylum Clearing old bacri near Chattri at Ganwar Repairing fence of Bani Chattri at Ganwar Repairing fence of Bani Chattri at Ganwar Repairing fence of Bani Chattri at Ganwar Naking a saucer drain near Poolunderjee's house, Chowkri Bishwasurji Thatching bungalow at Jinsi Tilungan Thatching bungalow at Jinsi Tilungan Sinking corrugated sheet bachri in well at Inspecting Bungalow compound at Jainar Transport Corre	Clearing well of Mahawatan Repairing syce's quarter at the stable for stallion at Hindown,
	Serial. No.	20 20 20 20 20 20 20 20 20 20 20 20 20 2	4 4

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Racquet court at the Residency, Jaipur	Repairing rails and wagons at the garden h Bahadur Babu Kanti Chander Nookerji	44 Kepairing fire pumps, &c., of the Municipal Committee, Jaipur 45 Pueca parapet wall to Bajji ki Baori at Ganwar	46 Constructing a receptacle for clearing water of temple Sri Sita Ramji, Rasta Nataniyan	Making steps in front of the house of Godhi, widow of	48 Digging a drain for diverting water of Matajee's maidan in front of Transport Corns. Jainur	49 Making a ramp in front of Nolia of Manna Lal and	50 Drystone pitching in Gandha Nullah near Sayad Valayat Ally's house	ae floor in Gandha Nullah	52 Putting slabs on 14 drinking wells, pargana Toda Rai	Project for increasing the supply of water to the	Narnin Shamee's house	5.5 Constructing a well near Thana Harmarah	Making a receptacle (khail, kotha) to well at Chakwa	of Laying 4 pipe to connect the water of 2 wells at Water-works	Rubble stone strainer band at Amanishah	59 Levelling from Chandpole to Ram Sagur 60 Glazed curthen times to nurnala of water tans. Sec. at the	city kotwali		62 Chore Baori on roadside, halfway between Toda	and Raj Mahal	Carried forward

APPENDIX B-continued.

	Remares.		
	Total.	Rs. a. p. 3,70,332 10 115,929 6 5 20 0 11 179 8 10 75 12 6 486 11 3 22 10 3 10 7 7 5 12 0	3,65,204 3 10
Expenditure.	Amount expended from 1st January to 31st December 1901.	Rs. a p. 1,21,653 13 9 — 3,993 7 3	1,92,457 4 11
	Amount expended from 1st from 1st January to 31st January to 31st December 1900. December 1901.	Rs. n. p. 2,49,750 6 9 —3,007 8 9 ——3,007 8 9 ——53 0 0	2,49,800 14 11 —3,060 8 9 2,46,740 6 2
	Amount sanctioned.	Rs. a. p 186 0 0 141 0 0 17 0 0 17 0 0	· : :
••	Name of works.	Repairing sweeper's well near the house of Rao Raja of Uniyara "" Engraving names of graduates in the Maharaja's College, Jaipur Sinking corrugated sheet Bachri in well of Yakin Shah Rubble stone floor and khurra at city Lions'cages Making staircase of Punchaiti Temple in Julsain Tank Lowering 2ft. and widening 10ft, supply cut Harmara Channel Clearing well at Nag Talai Lunatic asylum well	Total
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			Rs.325-0-9+ Rs.393-4-10=	(Ks.718-5-7.								-
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	\$5,05,818 7,775 4,19,558	} 168 11,703 24,879 15,453 10,354	1,761	7,237	7,768	6,819	2,337 5,743	7,917	954	5,185 —61	1,150	10,53,802
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	5,06,053 7,238 3,47,502	17.7 11,214 24,758 11,406 10,353	1,045	2,280 7,126	1,7,7	6.970	2,251	4,971	717	5,157	1,056	9,70,567
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	5,12,920 7,775 5,00,609	158 25,000 27,025 9,225 16,146	3,142	7,707 8,657	7,353	6,769	3,133 10,727	7,917	972	5,963	1,783	
IRRIGATION WORKS.	1 Chaparwara Irrigation Works 3 Ramgarh Irrigation Works	Hepairs to Koond Moran Bund Nigo Sagur Bund Barika Thore at Bairath Etagoi Weir on the river Mahashi New Bund at Gundal Repairs to Pairi canal a village in Oodik of Rao Bahadur Babu Kanti Chunder Mookerii	10 Johriwala Tank at Sarowli near Wazirpur	Bund Chan, raising 1 ft. II. W. L				Mohi	South Canal		21 Core walls on both sides of Irrigation sluices of tanks in the Eastern District Repairs to gap in inner slope Dhelra Bund	Carried forward
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APPENDIX B-continued.

	Remarks,			_										•		•
	Total,	Rs. a. p.	10,53,802 4 8 -61 15 · 3	2,300 2 4		0	~ c	5,085 3 2	Ö	698 10 10	1,312 11 0		₩.	20,256 14 1		14,446 '8 4 3,379 8 3
Expenditure.	Amount expended from 1st January to 31st December 1901.	Rs. a. p.	83,655 2 7 482 11 3	14 11 3	C	၁	2,748 8 5	13		109 60 0	331 6 0	4		80 12 1		3,268 7 6
	Amount expended up to 31st December 1909.	Rs. a. p.	9,70,567 14 1	2,285 7 1	3,415 12 10		<u></u> -	4,673 5 8		: 589 4 10	981 5 0		~	20,176 2 0	ø	11,178 0 10 3.203 12 6
	Amount sanctioned.	Rs. a. p.	:	0 0 111	3,433 0 0	c		2,000 U U U U U U U U U U U U U U U U U U	11,853 0 0	0	0 0 66,1	>	657 0 0		c	1,041 0 0
	Names of works.		Brought forward	Bund Jai Sugur at Toond making Core wall in the gap and repairs to inner slope	Bund Thaonla raising 2 ft. II. W. I.	into Moran Sagar	Halolao Tank at Niwai	Band Kerli Sagur raising 2 ft. II. W. L	Do. near Hingonia	Canal	New Bund at Gopipura near Punwar Framing Relief works confinencies	Preparing two pucca sluices with dhoras for irrigation of	Gangolao tank	Widening 15 ft. Ganwar supply cut	Bund Hoshapura, Tehsil Toda Rai Singh	Chandan supply cut from the Kallway Bridge at Sangan- ier
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Repairs to District tanks	Tori Sagur	Abpashi establishment	Boochara tank repairs and maintenance	Tori Sagur clearing canals	Works on the South canal of Tori Sagur-a	foot	Ca	Repairs to and enlarging Gaonwai tank at Bagnit	Sainthal Sagur	Tank Dawarakpura or Karia	Extension of the River Mahashi-10 miles towards	Sagur	Gangapur sub-division establishment	Bhaireon Sagur at Chandsen	Chaparwara Sagur clearing canals	Digging a canal from the River Mahashi to	Sagur	Repairing Bhairoon Sagur at Thalli	Sanganier Anicut silt clearance	Clearing silt and repairing channels Bund	Palri	Leewali	Moran Sagur Tank	Ramgarh sub-Division	Boochara	Western District Tanks do.	Moharrirs for	trict	Ghat Bhundari tank establishment	Bund Sheodoongri near Chaksu	Repairs to tank Julsain at Hindown	Tank Datoli, near Madhorajpura	Kishunpura	sion	
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		Total.	Rs,	21,10,828 —5,866	7.619	9,685	1,757	33	2,138	292	1,324	3,407	3,939	268	16,770	. 520	3,185	2,682	2,600	1,962
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	Expenditure.	Amount expended from 1st January to 31st December 1901,	Rs.	1,94,805	1.666	2,936	231	9 65	009	279	106	2.317	2,507	118	9,852	236	744	614	816	828
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APPENDIX B		Amount sanctioned.	Rs.	•	700 0	13,434	2,152	2.0°2 2.0°2 2.0°2	2,574	422	2,500	5 000	5,650	272	18,880	1,254	. 3.610	3,028	1,501	2,782
:		And of works.		Brought forward	Pucca Core wall in kutcha Pall of Bund Sawantgi		Bund Chandlai, repairs to, and Canals			3 Lengthening 100 ft. masonry wall of waste weir of Ram			Renairs to Rund Moti Sagur at Guonwari	Bridge over 4th Branch of Moran Sagur near Torra	Choru Sagur	Bridge over Johriwala supply cut in mile 10 of Gan pore and Vazirpur Road	Repairing patri of Akheyp	Tank Pichala	", Gobindi, Tehsil Phagi	Silt
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3,836	8,593	1001	14.46.1	23	5,101	12,890	200	5,222	5,583	1.2 1102	00310	2,455	1,770	5000	֖֭֓֞֝֞֜֞֝֞֝֓֓֓֓֓֓֓֓֓֞֝֓֓֓֓֞֝	no t		506	193	4.618	•	099		60	30	902		683	000 8	2000	1.07.1	#10 ¹ T	202	3,636	1,000	9.6.16	200%	3	7. C		:
pall and adding a Sluice Bund	Bara	Loto Bang		ing Bridges	at Kohara village			Bodia and Pholai	Rabaota	•	anguist Monwa	i tehsil Bonli	ands of Dhobolno Tank			Futten Sagut Sances	wan Canal near Old Luana ac	***	ewali Canal to Taijawala Tank,	la Tank at Livali	Clearing and renairing Indokhia and Kohara branches	outh Canal	Proces culvert over irrigation channel of Bhamhola Tank		•	ala at Bamniwas	Digging a new channel from 4th branch Mora Sagur to	:	Rinori	Phonorma Sagne I. I. South	17. 11. NOW		1:1011	tablishment	slums slum	;	•			Corried over	Califor of Ca
Repairing and increasing pall and adding a	Rennits to old Bund Banthali near Lamba	_	Indising a 1t. 1t. w. 1t. of a 1t. I fill Laure		-			_	Raising 2 ft. Pall Bund Rabaota				_		The paris to Discuss Amin a	Futten Sagur Sinices	Kepairing a 1ail over Mai	Sunganier	Digging a canal from Leewali Canal to To	Pucca Core wall in Ghoorla Tank at Liwn	Clearing and repairing It	of Tori Sagur H. L. South Canal	Puces culvert over irrigati	of Canada	at Gunwar	Repairs to Tank Nazimwala at Bamniwas	Digging a new channel fr	Banniwas	New Run Littarsnan at Binori	Beneiring and clearing (Lichard and staining comparate cagar	Outlies 1 To 1. View of 1	kepairs to Fail Jaila Mishold	Mozabad Sub-division Establishment	Clearing Kaligh Sagur Canals	Bund Earial (Small) Pero	Silt clearance of Raysur Main Canal	D. C. Damanala	Do. 01 Any uwan		
***	٧.	9 0	5 1	8	88	2	3 (3	6	3	18	C,	†6 ,	95	٠ د	2 5			ဆွ	66,	100	~-	101			102	103		_	105	, i			107	108	109	110		_		

APPENDIX B-continued.

ł		ł		(92	,										
	Remarks.															
	Total.	Rs. a. p.	22,22,961 15 8	266 13 0 1,281 9 3	189 6 0	697 '6 1	1 6 0	493 5 5	8 6 I 8), ~;			1,420 15 9	491 7 10	1 0	1,462 4 2
Expendicure.	Amount expended from 1st Junuary to 31st December 1901.	Rs. n. p.	2,43,408 1 10	266 13 0	4 13 0	420 6 1	1 6 0	'n	8 11 9	4.508	•	1,404 1 2	1,420 15 9	491 7 10	'n	1,462 4 2
	Amount expended up to 31st December 1900.	. Rs. a. p.	19,79,974 9 10	1,281 3 3	0 0 181	277 0 0	•	363 0 3	•				:	:	:	•
	Amount sanctioned.	Rs. a, p.	:	500 0 0 1,305 0 0	190 0 0	395 0 0	. 106 0 0	550 0 0	:	8.033 0 0	755 0 0	0		0	0	5.500 0 0
	. Name of works,		Brought forward	Silt clearance and repairs to canals at Sanganier Repairs to Bum Talao at Malpura	Rumji at Ghat Bhundari	State Area Sagar at Chora, reparts to part and pucca	Sagur parapet coping on Core wall	Coaparwara Sagur repairing and clearing H. I. South Canal	Bund Modhpura	Pucca Weir on the River Mahashi for the South Canal of Chaparwara Sagur near Kheri	Repairs to Bridge over Neota Supply Cut near Dhani Khoomaran	Agar Sagur, tehsil Mozahad	Raising Binori and Decean Sagur	No. 19, over Nala East Canal Madho Sagur	Making a sluice in 7th branch, Moran Sagur	Completing masonry Core wall-Lank Kerli do. do. do.
	Serial No.			113	11 12	2 2	7 .		118	119	120	121	122		77.	126

4 w

.0

: 23

Escape Chaparwata Sagur to fill Chorn Sagur Repairing Sluice No. 1, Moran Sagur

162 163 164 165

,382 0

io o

REMARKS.

Serial No.

0089 80 80 81 B 1- 5 2 2 2 0 븞 ن دد 4 5 600000 7 2 -51154E Total. 109 119 27 **R**3. 2 from 1st January to 31st December Amount expended స్ట్ ని 0 00 01 11 10 ċ 66 65 61 61 0 ယ ယ 1-60000 Expenditure, 01 0 તં 쇼당국쇼당 အမည်အလ Z 9~ 112 2,60,723 1 --6,834 269 269 108 128 119 109 16 37 **B**3. Amount expended c 4 5 ċ December 1900. up to 3îst 20 ë 19,86,483 APPENDIX B-concluded 4,248 281 : : : * : . : : : : : : . Rs. 0000 Ġ 00 000 œ. 0000 00 0 00 000 sanctioned. Amount 4.518 365 264 3,567 144 293 118 232 18 90 132 2,000 Rs. rhaola ... Ramba Ilari filling Setting iron sluice in Kala Talao at Jacobpura in place of Datadar : :::: Making a kunkur Khoorah in Mile 9, Kaligh Sagur : : : Tank Futteh Sagur. Pucca Core wall and repairs Wooden shutters for Moran Sagur Canal . Making a pucca sluice from Leewali Canal for Tank Dhamana, pargana Phagi, tehsil Mozabad Silt clearance of Tank Madhorajpura Ducts Brought forward Digging a canal from Hingonia to Gobindi Supply Cut Bund Madho Singhpura Clearing Supply Cut Bund Kote Necessary works on Bund Thaola Name of works. Pall for convenience of public water in Taijawala Tank d0 Conur

155 156

150 151 162 163 163

157 158

169

9 19 19

4-80- 8	010	4
480811	១១	15
441 4 2,907 3 10 5 0 13 0 13 6 11	22,56,498 12 10 5,907 13 6	2,56,187 3 0 22,50,590 15
0 0 0 0 m	ထထ	0
0 0 113 0	C E	122
-39 0 -26 9 10 5 0 13 0 13	2,63,095 0 8 -6,907 13 8)
جم م نا	40	14
ত ন্	0 +	្ន
480 5 2,933 12 	19,94,427 0 4	19,94,403 12 4
00000	<u> </u>	
00000	<u> </u>	
713 3,759 50 2,000 934		:
r Canal to	·	:
carry well water across the Canal Kaligh Sagur Canal necessary pucca works Repairs to Amanishah Supply Cut Repairing and enlarging Kala Talao near Gobindi Tank Dhamalia, tehsil Malpura Chaparwara Sagur Canal, Erecting sluice gate counterpoise weights over head pulley		Total
367 167 169 170 171		

APPENDIX C.

Sratement of Roads and Lines of Communications in the Jaipur State for the year 1901.

					.(1	56)																
	Remarks.			With the exception of roads in the	city of Jaipur, which are from 50 to	100 ft. wide, metalled and paved on	de, all the road	the centre 12 i	with kunkur and the nullahs are	mostly unbridged.					•				·				-		-
	оо өратөү <i>А</i> пипедпіят	-wı	nu j	քսյ	o3	ρλ	p	əpi								jo səl						ЧŢ		286.89	,
went 1	oo egarevA gaisham gad peox	ei ,	cen Joi	प् _र	es es	w do	.J} ai	6	36 m	ad ak	ro naj	we d:	n iv	8 ; 7 p	ło beli	[13]	əα	იგ 1 1	IJ	ซ โ		чл		:	
·Łus l	Extensions, i																							:	
	Annual cost of maintenance.	Rs. a. p.	26,822 0 6	4,554 9 10		9,735 12 7	:		6,253 2 9		29,182 12 10	:	:	:	8,010 7 2	839 6 10	,	74 15 0	C	:	:	602 15 6		86,334 12 6	
H IN ES.	Unmetalled.		:	673)	:	:	:	:		:	:	:	:	:	24	82	16	:	27	25	38.63		224.13	
Jengti Mile	.beffatel		47.31	15.		81.18	2 †•0	0.54	52.		47.61	2.79	0.45	2.59	43.	:	:	:	ċ	:	:	:		300.92	
	Name of Roads.		•	Chambal	and a branch to Moh	:	::	•••	•	Jaipur to Tonk Border and a link road in the bed of Sanga-	;		:	:		pro	pe		ų. ··· ų	•	-		-	Total	:
Name of			In the City and Environs	Dosa viâ Lalsote to River Chambal	Agra Road including Naila	Dispensary ::.	Jhir Station Road, R. M. R.	Jatwara do. do.	Ajmer Road	Jaipur to Tonk Border and	nier River	Jagatpura Road	Sheodaspura Station Road	Chaksu do. do.	Mandawar and Karowli Road	Hindown and Gangapore Road	Gangapore and Lalsote Road	Deoli Road (Jaipur Section)	Raj Mahal and Deoli branc	Gangapore to Bharoti Road	Kothoon to Lalsote Road	Naraina to Malpura Road			

(57)

APPENDIX D.

Statement of Imperial works executed during the year ending 31st December 1901.

Name of work.			<u>5</u> 8	Amount expended up to 31st December 1901.	Total.	Веманкя.
	1	Rs. a. p.	Rs. a. p.	Re. n. p.	Rs. a. p.	
Mohwa Post Office. Fixing iron har junglas in the 5 windows	glas in the 5	117 0 0	:	80 13 6	80 13 6	Estimate for Rs.117 sunctioned by the Superintending Engineer, Raj-
~~~	-da vigo programa e mante es		-	general general		purana circle, vide nis letter No. 5216-R., dated 10th November 1900.
Repairs to Government Hospital, Jaipur	:	0 0 821	:	i.	:	Sanction ed Estimate for Rs.158, by the Superin- tending Engineer, Rajputana circle, vide his letter No. 548-R., dated 9th December 1901.
Contingencies (Postage stamps)	:	:	:	9 8. E	မ ဆ က	Letter No. 1181, dated 16th May 1893, from the Examiner, P. W. Accounts, Rajputana and Central India.
Total	:	275 0 0	:	0 9 1-8	84 6 0	•

APPEN
STATEMENT of Irrigation for the Raj year ending 31st August 1901, (Sambat 1957)

				OUTLAY.				
No.	Name of work.		Expenditure up to last year	Expenditure during the year.	Total.	High water level	Water, if any, from previous year.	of water
			Rs. a p	Rs. a. p	Rs. a. p	Ft. in.	Ft. in.	Ft. in.
1	Bhao Sagur	•••	}	{	,	14 0		3 6
2	Ram Sagur		40,324 0 2	]	40,422 8 2	50 0	•••	3 0
3	Bund Talao		1 40,024 0 2	•••	19,122 0 2	8 0		,
4	Man Sagur		)	98 8 0	J	30 0		0 11
5	Khonagore		2,603 14 11	25 0 3	2,628 15 2	12 0	•••	5 0
6	Koonthara		10,615 8 6	***	10,615 8 6	9 0		•••
7	Neota Bund, Ram Sagur		1,93,568 120	425 9 3	1,93,994 5 3	16 0		6 9
8	Chandlai		93,330 8 3	2,020 14 0	95,351 6 3	10 0	•••	7 0
9	Banganga Weir and Canal		69,403 13 3	•••	69,403 13 3	•••		
10	Berasina		16,431 2 9	***	16,431 2 9	,,,		***
11	Raiola		24,735 10 6	40 11 9	24,776 6 3	21 0		21 0
12	Bund Raisar Khur		1,15,793 15 11	815 15 10	1,16,609 15 9	40 0		25 6
13	Jetpura Tank	}	6,972 10 10	•••	6,972 10 10	8 0		
14	Benekhar		2,926 14 0	•••	2,926 14 0	8 0		
15	Bandolao		14,910 9 11	206 8 6	15,117 2 5	8 0		1 6
16	Bhaosa		2,521 12 1	0 10 0	2,522 6 1	8 0		
17	Dhobolao Nirana		51,252 12 5	145 6 0	51,398 2 5	12 0		5 6
18	Kala Talao	•••	5,224 13 7	77 1 7	5,301 15 2	8 6		4 0
19	Bhora-ka-Dand	•••	3,023 6 3	26 0 6	3,049 6 9	9 0		1 3
20	Naya Sagur, Mozabad	•••	17,595 12 0	18 0 0	17,613 12 0	13 0		4 0
21	Bankia Churu	•••	5,538 0 2	•••	5,538 0 2	6 6		2 3
22	Ram Sagur Churu	***	5,346 14 7	582 12 10	5,929 11 5	5 0		
23	Kagia Phagi	•••	3,234 13 2	2 11 (	3,237 8 2	6 0		
24	Kanolao Phagi	•••	9,503 14 2	9 11 9	9,513 9 11	5 0		***
25	Ram Sagur Phagi	•••	4,508 6 7	10 1 6	4,518 8 1	5 0		1 0
26	Bujeali Phagi	•••	13,715 9 (	57 3 3	13,772 12 9	9 0		2 0
27	Teelolao Phagi	***	11,031 11 1	30 11 8	11,062 6 10	5 0		•••
28	Ram Sagur Madhorajpura	•••	7,017 13 10	_	7,094 0 4	6 0		•••
29	Nimla P. Weir		8,526 10	6 9	8,533 3 9	: 15 0	ļ,	12 3
30	Kaligh-Sagur	•••	2,79,447 8 9	1,814 13	3 2,81,262 6	26 0		9 9
31	Lambia Chaksu	•••	3,697 11	5 8 (	3,703 3 10	10 0		4 0
32	Ram Sagur Ganor	•••	1,26,215 6	431 9	1,26,646 15 10	11 0		3.0
	Carried over	•••	11,49,020 9	6,928 5	11,55,948 14 (			•••

'DIX E.
'received from the Durbar, showing the Outlay by the Engineer and the Returns.

	RE	TURNS FOR THE Y	EAR.				
No. of bighas irrigated.	Amount of water rate.	Amount of share of produce.	Miscellaneous.	Total.	Percentage on Outlay	Total amount realized up to end of August 1901.	No
Big. bis	Rs. a. p.	Rs. a. p.	Rs. a. p.	Ks. a. p.		Rs a. p.	
•••	•••	•••	•••	•••	)		I
624 7	859 8 G	1,116 5 6	53 14 0	2,020 12 0	6.33	53,128 5 6	2
4 0	4 0 0	800	•••	12 0 0		,	3
150 11	214 15 6	296 9 0	9 4 6	520 13 0	)	l	4
77 16	61 12 9	125 4 0	13 0 0	200 0 9	7.60	1,727 12 3	5
•••	***	•••	***		•••	4,281 14 6	6
1,368 9	1,623 6 9	2,862 5 3	51 4 0	4,537 0 0	2.33	1,09,732 12 3	7
1,057 14	612 14 9	2,211 12 3	18 14 0	2,843 9 0	2.98	1,25,476 7 6	8
1,752 14	1,588 12 6	1,751 14 9	372 10 6	3,713 5 9	5:34	52,425 1 0	9
	•••	•••	•••		•••	4,080 10 0	10
402 1	306 1 9	402 0 0	231 14 6	943 1 0	3.80	18,102 0 9	11
2,608 8	2,228 15 0	2,608 6 3	393 8 0	5,230 13 3	4 48	1,40,829 5 0	12
20 4	10 3 6	40 6 0	•••	50 9 6	0.73	9,288 9 G	13
	4,,	•••	•••	<b></b>		1,257 2 3	14
262 19	169 3 6	488 0 0	6 2 0	663 5 6	4 38	7,216 11 9	15
3 4	0 12 8	600	19 5 6	26 2 3	1.03	1,287 0 0	16
614 7	381 14 G	1,004 0 0	56 10 O	1,445 8 6	2 81	38,082 2 3	17
118 16	56 4 6	232 0 0	1 14 0	290 2 6	5.46	4,533 10 0	18
90 7	45 3 0	164 12 0	•••	209 15 0	6 23	5,746 13 9	19
840 17	671 2 6	1,672 8 0	28 5 0	2,371 15 6	13 46	95,671 2 0	20
746 6	C88 '6 O	872 5 9	0 12 0	1,561 7 9	28 18	20,402 2 3	21
1,009 5	543 10 6	1,357 8 6	12 13 0	1,914 0 0	32:27	11,768 2 6	22
13 14	8 15 0		1 8 0	10 7 0	030	3,013 3 3	23
881 6	387 6 9	1,055 26	•••	1,442 9 3	15 16	30,773 12 6	24
1,511 11	169 3 O	1,753 5 0	29 11 9	1,952 3 9	43.22	20,328 7 6	25
385 3	277 8 0	475 14 6	23 0 0	776 6 6	5.63	16,013 4 3	26
44 5	23 8 9	46 0 0	21 6 3	90 15 0	0 82	13,321 0 9	27
	•••	•••	***	***		10,210 1 6	28
	50 0 0		3 12 0	53 12 0	0.63	1,198 7 6	29
8,178 15	· 6,772 9 0	15,314 1 0	326 2 3	22,442 12 3	7 97	6,28,586 2 0	30
32 5	16 10 3	250 11 6	2 4 0	269 9 9	7:28	15,528 15 0	31
2,025 7	1,156 7 6	4,050 11 9	104 15 9	5,312 3 0	4.19	40,252 0 0	32
24,824 4	18,932 8 6	40,196 0 3	1,785 15 .0	60,914 7 9		14,84,383 3 3	

						Outi	NT.				ı			,
No.	Name of work.		Expenditu to last y			Expendi during year	the		Total	l.	Hig Wat leve	er	Water, if any, from previous year.	Hei of w
			Ra.	a.	p.	Rs.	a.	<b>р</b> .	Rs.	a. p.	Ft.	ìn.	Ft. in	Ft.
	Brought forward	•••	11,49,020	9	5	6,928	5	1	11,55,948	14 6				
33	Bhambolao Ganor	•••	9,649	2	8	109	2	9	9,758	5 5	8	0		4
34	Lamba Large Hari Singh	***	55,751	6	10	83	5	0	55,834	11 10	15	0	1 0	4
35	Borara Ram Singhpoora	•••	4,246	15	10	5	2	0	4,252	1 10	6	0		3
36	Nasrida Bund	•••	26,494	1	1	3,358	15	9	29,853	0 10	10	U		8
37	Sublidand Sinodia	•••	6,766	15	7	15	9	6	6,782	9 1	10	o		4
38	Khedolao		5,042	4	4	17	6	0	5,059	10 4	6	0		4
39	Gangalao Toda Rai Singh	•••	9,586	6	6	463	9	11	10,050	0 5	10	0		6
40	Karoria	***	3,469	14	2	17	3	3	3,487	1 5	18	0		10
41	Rathoria	•••	2,403	14	1	22	10	6	2,426	8 7	10	0		5
42	Sandla	•••	15,305	0	3	75	1	9	15,380	2 0	10	0	•••	1
43	Morla Sriram Nagur	•••	9,023	8	0	•••			9,023	8 0	7	0		1
44	Bala Sagur Kankarwall	•••	2,912	10	2	•••			2,912	10 2	7	0		3
45	Beebolao Bas Ganethi	•••	3,504	11	5	3	4	6	3,507	15 11	7	0		2
4G	Saitiwas	•••	6,439	12	7				6,438	12 7	12	0		9
47	Thaola	•••	37,803	0	9		4	9	38,237	5 6	11	0	2 9	6
48	Panwar	•••	83,505	2	8	760	2	6	84,265	5 2	14	0	6 0	5
49	Tori Sagur	•••	6 03,268		0	6 695	2	2	6,09,964	0 2	30	0	15 6	6
50	Kiraol Sagur	•••	1,02,589	14	0		5	9		3 9	14	0		4
51	Bhambolao Toda Rai Singh	•••	541	7	0	•••			541	7 0	6	0		3
52	Jharana	•••	1,945	15	0	38	6	6	1 984	5 6	7	0		••.
53	Dangurthul	•••	11,474			İ			11,474	7 2				•••
54	Rawatwala Chaksu	•••	11,838			ļ	1	1	11,887	7 10	11	6		7
55	Gaitolao	•••	5,214			609	10	4	5,824	8 8	7	0		4
56	Namolao Bara	•••	1,633							15 10	6	0	•••	6
57	Do. Chota	•••	958			ł		:	958	9 6	6	0	<b></b> ·	•••
58	Bijey Sagur Baswa	•••	11,395	10	4	176	2	11	11,571	13 3	8	0		7
59	Koond Moran	•••	1,476	5	0	82	3	4	1,558	8 4				***
60	Roop Sagur Shendoli		21,677			171	14	6	21,849	4 2	16	0		6
61	Madho Sagur Gerowly	•••	1,90,735	4	3	10,48	4	3	1,91,783	8 6	30	0	}	22
62			1,68,272			· · · · · ·			1,70,988		l	.0		16
63	Kot Hindown	• •	20,394			287	4	11	20,631	12 4	5	6		3
64	Horla	••	4,708	14	1	85	14	9	4,794	12 10	5	0	•••	. •••
	,													-
	Carried over	••	25,89,056	10	11	24,45	 6 18	3 ]	26,13,513	8 0	•••	_		. ***

DIX E—(continued).

	Ri	ETURNS FOR THE Y	EAR.				
No. of bighns irrigated.	Amount of water-rate.	Amount of share of produce.	Miscellaneous.	Total.	Percentage on Outlay.	Total amount realized up to end of August 1901.	No
Big bis	Rs. a. p	Rs. a. p.	Rs. a. p.	Rs, a. p.		Rs. a. p	-
24,824 4	18,932 8 6	40,196 0 3	1,785 15 0	60,914 7 9	••• ,	14,84,383 3 3	32
228 1	. 118 10 6	456 1 9	46 0 0	620 12 3	6.36	15,734 12 6	33
1,244 4	. 980 15 9	2,488 7 0	12 12 0	3,482 2 9	6.23	75,722 8 9	34
294 15	, 147 6 3	589 8 6	•••	736 14 9	1.73	5,938 10 9	35
326 1	. 187 3 9	135 12 9	5 8 9	328 9 3	1.10	22,847 0 3	36
365 4	183 0 3	1,008 8 0	1 0 0	1,192 8 3	17:58	6,722 10 9	37
202 12	. 110 12 0	452 12 6	***	563 8 6	11.14	4,832 15 0	38
69 16	39 3 3	129 0 0	•••	168 3 3	1.67	3,016 7 9	39
***	***	•••	•••	•••	•••	2760 14 0	40
59 7	81 0 9	200 0 0	0 8 0	231 8 9	9.55	4,727 6 9	41
659 8	370 14 0	1,141 8 0	3 0 0	1,515 6 0	9.08	18,376 2 9	42
***	. •••	•••	***	***	•••	5,014 8 9	43
58 11	. 25 2 6	375 0 0	1 4 0	401 6 6	13.76	4,197 10 6	44
195 17	109 5 6	562 5 3	6 5 0	677 15 9	19:32	6,772 2 6	45
71 8	46 15 9	67 0 0	700	120 15 9	1.87	6,687 6 9	46
268 17	182 12 9	1,356 6 6	8 4 0	1,547 7 3	3·10	50,797 11 3	47
287 1	187 8 6	348 0 0	8 12 0	544 4 G	0.64	55,864 14 G	48
4,107 14	3,363 11 6	8,205 10 9	154 0 0	11,723 6 3	1.92	5,88 274 10 9	49
2,336 10	1,941 6 3	4,672 15 6	8 4 0	6,622 9 9	6.43	59,403 0 0	50
9 3	5 6 9	12 0 0	24 9 0	41 15 9	7.76	473 15 9	51
•••		•-•	***	•••		1,680 15 6	52
•••	•••		•••	444		7,294 7 0	53
148 2	135 13 0	1,047 11 9	19 8 0	1,203 0 9	10.12	12,911 2 9	54
•••	1,000 0 0	•	16 0 0	1,016 0 0	17:44	14,727 0 6	55
•••	282 7 0	•••	0 10 0	283 1 0	17:31	2,480 11 0	56
•••	***	<b></b>	***			918 12 9	57
366 6		469 0 3	65 10 6	534 10 9	4.62	9,331 1 8	58
•••			***	•••		16,543 1 3	59
1,727 3	1,663 4 9	10,437 4 0	1,319 9 6	13,420 2 3	61.42	52,398 7 9	60
737 6	416 18 0	3,095 8 6	91 4 9	3,603 10 3	1.08	1,49,666 1 0	61
12,643 10	9,319 6 3	25,326 13 9	5,478 4 0	40,124 8 0	23:42	5,59,793 10 6	62
211 13	20 6 6	481 3 6	19 8 0	521 2 0	2 52	10,018 7 6	63
***	•••	558 14 0	10 0 0	563 14 0	11 74	16,668 14 0	64
51,437 13	30,802 3 0	1,03,808 8 6	9,093 8 6	1,52,704 4 0		32,77,881 10 0	

						OUTLA	Y.							Water,	Height
No	Name of Work.		Expendita to last y			Expendi during year	the		Total	•		Hig wate leve	r	if any, from previous year.	of water last rains.
-			Rs.	a.	p	Rs.	n,	p.	Rs.	a. p	·	Ft.	in.	Ft in.	Ft. in.
	Brought forward		25,89,056	10	11	24,456 1	3	1	26,13,513	8	o	•••		***	•••
65	Naharkhora		6,939	14	8	2	5	0	6,942	3	8	8	0	•••	•••
66	Salampur	•••	3,506	14	6	63	8	ű	3,570	6 1	2	5	0	•••	3 0
67	Seekanderpur		8,510	15	1	10	14	8	8,521	18		9	0	•••	•••
68	Jatwala Hindown	•••	9,982	2	4	20	7	1	10,002	8	6	7	6	•••	5 0
69	Maiswa Hindown	•••	36,882	0	2	9	12	4	36,891	12	6	11	0	•••	7 0
70	Futteh Sagur	٠.,	13,718	2	10	405	5	6	14,123	8	4	17	0		16 0
71	Bishan Samand Ghat Bhundar	у,	52,605	6	Я	900	12	2	53,506	2 1	1	26	0	***	12 ?
72	Howda Hali	•••	21,266	9	3	. 65	14	в	21,332	7	9	14	0		8 (
73	Jhunki	•••	2,828	5	8	•••			2,823	5	8	5	0		3 .
74	Shumspore	•••	8,643	15	3	15	7	3	8,659	6	6	9	0		7
75	Telanwala, Wazirpore	•••	h			(7	0	0	5			6	0		6
76	Ram Talao, Wazirpore	•••	> 0,158	9	7	<b>40</b>	7	3	9,250	15	9	6	0		6
77	Bara Talao, Wazirpore	•••	}			44	14	11	)		1	6	0		6 (
78	Nimazwala, Wazirpore	•••	504	0	11	ច	12	6	£00°	13	5	3	0		3 1
79	Jhoriwala	•••	15,239	4	6	954	14	10	16,194	3	4	7	0		7 1
80	Jeoli	•••	h						5						
81	Nazimwala	•••	14,271	1	9	43	2	11	14,314	4	ε	7	0		2
82	Mirzaporewala	•••	]}						}			5	0,		2
83	D. 110	•••	1,20,613	5	1	793	5	0	1,21,406	10	1	8	0		***
84	Moti Sagur Gaouri	•••	23,096	7	6	2,507	14	)	25,694	5	7	8	0		4
85	Ghoria		4,591	0	4	. 81	10	7	4,672	10 1	,	5	0		5
86	Shunker Talao Goojur Thikr	ia,	9,012	10	5	22	6	3	9,035	0	8	8	0		. 8
87		•••	63,446				9	6	}		8	10	0		8
88	Dhelra Tank	•••	6,158						i		1	6	0		3
89	Doorga Sagur	•••	1				11		1			ς 6	0		3
90	Dhund	•••	27,181	0	9			11	27,326	1	1	6	0	•	5
91	Jey Sagur Toond	•••	41,479	2	1	69	13	3	41,548	15	4	8	.0		8
92	Bhorati Bund		3,993			31	14	0	4,025	12	7	9	0		4
93	AT To If	•••	1			216			i)			( 9	0		1
94	Kharila	•••	11,647	0	6	,,			11,902	11	0	9	0		3
95	Bhèim Sagur	•••		·		!}	10		H			9	0		- 4
96	Buchara	•••	3,39,447	1	8	1			3,40,682	0	6	•	0		38
97	Sarmadi Phagi	•••	3,856				15		1 .		1	6			1
					_				1		. _				
•	G	•	34,47,632	6	10	33,084	4	9	34,80,716	11 '	7	••• • `		•••	•••

DIX E-(continued).

irrigated.  Big. bis	Re Amount of water-rate.  Rs. a. p. 39,802 3 0 4 9 3 6 5 3 18 11 0 239 8 6 2,483 14 6 281 11 6 140 2 6	Rs. a. p. 1,03,808 8 6 15 2 6 100 0 0 122 3 9 590 13 0 2,999 6 9 14,242 9 3 1,947 0 6	Miscellaneous.  Rs. a. p. 9,093 8 6 13 12 0 3 0 0 10 12 0 24 2 0 11 8 0 40 4 0 944 14 9	Total.  Rs. a p. 1,52,704 4 0	Percentage on Outlay. 0.47 0.98 1.30 1.53 1.68 23.21	Total amount realized up to end of August 1901.  Rs. a. p.  32,77,881 10 0  2,716 7 8  970 4 0  4,778 8 6  16,130 6 0  33,240 12 6
Big. bis 51;437 13 7 1 25 6 43 1 629 5 4,363 12 493 6	Rs. a. p. 39,802 3 0 4 9 3 6 5 3 18 11 0 239 8 6 2,483 14 6 281 11 6	Rs. a, p. 1,03,808 8 6 15 2 6 100 0 0 122 3 9 590 13 0 2,099 6 9 14,242 9 3 1,947 0 6	Rs. a. p. 9,093 8 6 13 12 0 3 0 0 10 12 0 24 2 0 11 8 0 40 4 0 944 14 9	R4. a p. 1,52,704 4 0 88 7 9 3 0 0 110 12 0 152 11 0 621 0 0 3,279 3 3	 0·47 0 08 1·30 1·53 1·68	Rs. a. p.  32,77,881 10 0  2,716 7 8  970 4 0  4,778 8 6  16,130 6 0
51;437 13 · · · · · · · · · · · · · · · · · ·	39,802 3 0 4 9 3 6 5 3 18 11 0 239 8 6 2,483 14 6 281 11 6	1,03,808 8 6 15 2 6 100 0 0 122 3 9 590 13 0 2,009 6 9 14,242 9 3 1,947 0 6	9,093 8 6 13 12 0 3 0 0 10 12 0 24 2 0 11 8 0 40 4 0 944 14 9	1,52,704 4 0 38 7 9 3 0 0 110 12 0 152 11 0 621 0 0 3,279 3 8	0·47 0 08 1·30 1·52 1·68	32,77,881 10 0 2,716 7 8 970 4 0 4,778 8 6 16,130 6 0
7 1 25 6 43 1 629 5 4,363 12 493 6	4 9 3 6 5 3 18 11 0 239 8 6 2,483 14 6 281 11 6	15 2 6  100 0 0 122 3 9 590 13 0 2,099 6 9 14,242 9 3 1,947 0 6	13 12 0 3 0 0 10 12 0 24 2 0 11 8 0 40 4 0 944 14 9	38 7 9 3 0 0 110 12 0 152 11 0 621 0 0 3,279 3 8	0·47 0 08 1·30 1·52 1·68	2,716 7 8 970 4 0 4,778 8 6 16,130 6 0
25 6 43 1 629 5 4,363 12 493 6	6 5 3 18 11 0 239 8 6 2,483 14 6 281 11 6	 100 0 0 122 3 9 590 13 0 2,999 6 9 14,242 9 3 1,947 0 6	3 0 0 10 12 0 24 2 0 11 8 0 40 4 0 944 14 9	3 0 0 110 12 0 152 11 0 621 0 0 3,279 3 8	0 08 1·30 1·52 1·68	970 4 0 4,778 8 6 16,130 6 0
25 6 43 1 629 5 4,363 12 493 6	6 5 3 18 11 0 239 8 6 2,483 14 6 281 11 6	100 0 0 122 3 9 590 13 0 2,999 6 9 14,242 9 3 1,947 0 6	10 12 0 24 2 0 11 8 0 40 4 0 944 14 9	110 12 0 152 11 0 621 0 0 3,279 3 8	1·30 1·52 1·68	4,778 ⋅8 6 16,130 6 0
25 6 43 1 629 5 4,363 12 493 6	6 5 3 18 11 0 239 8 6 2,483 14 6 281 11 6	122 3 9 590 13 0 2,999 6 9 14,242 9 3 1,947 0 6	24 2 0 11 8 0 40 4 0 944 14 9	152 11 0 621 0 0 3,279 3 8	1·52 1·68	16,130 6 0
43 1 629 5 4,363 12 493 6	18 11 0 239 8 6 2,483 14 6 281 11 6 	590 13 0 2,999 6 9 14,242 9 3 1,947 0 6	11 8 0 40 4 0 944 14 9	621 0 0· 3,279 3 8·	1.68	· ·
629 5 4,363 12 493 6	239 8 6 2,483 14 6 281 11 6	2,999 6 9 14,242 9 3 1,947 0 6	40 4 0 944 14 9	3,279 3 3		33,240 12 6
4,363 12 493 6	2,483 14 6 281 11 6 	14,242 9 3 1,947 0 6	944 14 9	} `	23.21	
493 6	281 11 6 	1,947 0 6		17 071 G G		1,01,398 1 9
	***	-		1 11/01+ 0 0	10.70	1,85,111 5 3
	***		<i>55</i> 2 3	2,283 14 3	10.70	31,895 4 3
	 149 9 6	i 1	3 0 0	3 0 0	0.10	9,245 15 6
- 1	149 o n		•••			2,835 0 6
147 7		552 6 0	5 4 0	706 12 G	·	ſ 18,182 6 0
204 3	148 3 3	619 5 9	41 8 0	809 1 0	> 18.93	9,202 0 6
78 3	50 1 6	170 12 6	17 3 3	238 1 3		3,804 6 0
8 10	5 4 0	20 8 0	4 12 0	30 8 0	5 68	2,248 15 9
452 2	263 2 6	1,536 6 3	21 8 0	1,821 0 9	11.24	20,813 6 6
4.0	***		•••	444	1	( 1,299 10 6
245 12	121 14 9	491 3 0	152 1 0	765 2 9	5 66	24,165 9 9
15 6	7 10 6	30 9 9	7 10 6	45 14 9	]	5,061 0 0
2,789 15	1,700 . 1 0	4,144 12 0	1,036 4 0	6,881 1 0	5-66	2,34,000 5 3
•••	***		•••			9,792 8 6
•••	100		***			146 6 0
194 19	66 0 9	408 6 3	33 15 9	508 6 9	5.62	9.313 9 3
774 17	638 12 6	2,734 8 9	418 8 9	3,821 14 0	5 98	56,214 2 6
372 19	248 13 6	1,302 0 6	179 2 6	1,730 0 6	27:39	33,589 7 0
135 17	79 3 3	473 7 9	67 2 9	619 13 9	,	( 21,845 11 3
185 19	95 15 6	647 8 6	84 10 0	828 2 0	5.29	5,314 9 9
737 18	440 6 6	2,400 13 0	314 9 6	3,155 13 0	7-69	33,873 8 6
69 10	43 14 9	242 6 0	0 5 6	286 10 3	6-11	5,530 3 3
256 5	206 9 3	602 0 0	69 1 0	877 10 3	\ "	( 19 029 12 6
178 12	146 11 0	349 0 0	· 96 8 0	592 3 0	15.60	5,693 8 0
128 4	72 14 9	250 0 0	63 14 0	386 12 9		4,122 5 0
·6,222 12	5,925 13 0	20,054 4 0	1,402 2 0	27,382 3 0	803	2,41,636 8 6
90 10	54 2 0	119 6 0	•••	173 8 0	4.50	1,348 3 0
70,288 4	53,301 11 9	1,60.975 8 8	14,246 2 0	2,28,523 6 o		

				. (	64 )			,			
											۱ ۱
			1		OUTLA	Y.				Water, if	
No.	Name of Work.		Expenditu to last ye	re up ar.	Expendit during year.	the	Total.		High water level.	any, from previous year.	of w
•			Rs.	а. р	Rs.	a. p	Rs.	<b>a.</b> p.	Ft.·in.	Ft. in.	Ft.
	Brought forward	•••	34,47,632	6 lO	33,084	4 9	34,80,716	11 7		***	
98	Bar Solankiyan	•••	5,572 1	11 11	7	9 (	5,580	4 11	5 0		
99	Bartal Bund	•••	5,282	1 8	•••		5,282	1 8	•••.	•••	•••
100	Kalumda Tank Helolao	•••	10,169	8 1	33	6 8	10,202	l4 10	8 0		8
101	Roopahaily	***	6,463 1	3 1	1,107	4 9	7,571	1 10	7 0		5
102	Ganethi Bund	•••	19,622 1	lO 2	1,067	1.0	20,689	11 2	10 0		7
103	More Bund	•••	5,044 1	11 10	1	10 0	5,046	5 10	6 0	•••	1
104	Dhund Tank Nagur	•••	1,714	5 9	3	9 (	1,717	l4 9	6 0	•	1
105	Baneria Tank •••	•••	4,155 1	l2 6	1,826	7 7	5,982	4 ]	4 0		2
106	Barwas Tank	•••	1,351	9 6	•••		1,351	9 6	4,,0		,•••
107	Jacobabad Tank	•••	3,108 ]	l <b>3</b> 0	•••		3,108	l3 0	3,0	•••	,
108	Bankri Tank	•••	2,313 1	1 1	18	14 4	2,332	9 5	8 0		•••
109	Dhapawan	•••	2,798	10 6	0	6 (	2,799	6 (	6 0		2
110	Haripura Bund	•••	10,519	14 11	15	3 (	10,535	1 11	10 3	,	5
111	Buso Bund	•••	9,931	0 8	•••		9,931.	0 8	•••		•••
112	Bhagwantgurh Bund	•••	11,720	2 7	•••		11,720	2 7	13 0		
113	Khari Nullah	•••	15,468	12 2	ł	0 (	15,473	12 2	190		10
114	Rabauta	***	10,174	11 9	1,694	3 7	11,868 1	5 4	6 0		. 2
115	Madhosinghpura	•••	10,792			6 (	10,802	9 0	12 0	0 6	10
116	Naya Tolao, Lawali	***	14,163 1	11 1	112	7 7	14,276	2 8	5 0		1
117	Dhunnawali Bunri	***	291 1				291		ŀ		
118	Gotrawala	***	117			3 6	_				
119	Moti Sagur Churu	•••	7,037		ļ	15 0	1		5 0		***
120	New Bund, Islampur	•••	17,893		Ï	5 0	1			·	1
121	Lambia Toda Rai Singh	***	1 700			2 (					•••
122	Sainthal Weir	•••	18,319				18,319 1	0 10	••	'	***
123	Minaka Lota	•••	į				1,262	4 5	2 0	•••	•••
124	Matholao	•••	6,606			4 6	6,620	2 3	6 0		2
125	Garara Bund	••	36,689	1 10	203	12 8	36,892	l <b>4</b> 3	14 0		10
126	Chaparwara Bund	•••	5,18,435	2 10	14,828	11 , 9	5,33,263	l <b>4</b> 7	17 0		0
127		•••	h				5				
,	Gulab Bagh				76	7 8			• 2		
	Runjka	•••	7700	3 6	] ]		11	0 6			-
	Matwali	•••			l i	5 9	11				.,
	Sheopur and Bombala	•••	11		Π,	10 (	11				
										.	
r	Carried over	•••	42,13,817	9 8	54,667	0 (	42,67 <b>,</b> 984 ]	0 2	•••		•.

DIX E—(continued).

• .	Ri	TURNS FOR THE Y	EAR.				
No. of bighas irrigated.	Amount of water-rate.	Amount of share of produce.	Miscellancous	Total.	Percentage on Outlay.	Total amount realized up to end of August 1901.	No
Big. bis.	Rs. a. p	Rs. a. p.	Rs. a. p.	R4, a. p.		Rs. a. p	
70,288 4	53,301 11 9	1,60,975 8 3	14,246 2 0	2,28,523 6 0	••	44,37,940 9 9	
207 12	103 12 9	415 0 0	••	518 12 9	9.30	6,610 8 0	98
••	••	••	••			161 2 6	99
••	••	••	••	••		••	100
21 16	10 14 3	43 9 9	60 6 3	114 14 3	1.51	<b>2,</b> 634 12 9	101
169 16	148 13 3	847 15 9	20 8 0	1,017 5 0	4.91	8,450 1 0	102
17 5	8 10 0	4 0 0	3 0 0	15 10 0	0.31	3,179 8 6	103
102 15	50 1 0	205 8 3		255 9 3	14 90	2,703 3 9	104
43 5	41 15 3	297 5 9	53 12 0	393 1 0	7 12	5,039 6 6	105
	4.4		••	••		365 6 9	106
••			39 4 0	39 4 0	1.25	8,960 7 0	107
24 11	23 1 9	21 6 0	3 8 0	47 15 9	2.05	779 10 6	108
• •	••	37 9 9	0 11 0	38 4 9	1.85	316 4 3	109
••	080	••	1 12 0	2 4 0	0 01	3,018 13 0	110
••	••	••	••	••		4 0 0	111
••	••	••	18 3 0	18 3 0	0-15	436 0 9	112
••	••		2 8 6	286	0.19	6,308 15 0	113
103 0	60 14 6	285 0 0	3 0 0	848 14 6	2 09	6,529 12 9	114
249 18	134 12 3	440 8 0	14 9 6	589 8 <b>9</b>	4.13	6,785 10 3	115
••	.:	••	••	••	••		116
••	••	••	••				117
••	••		••		`		118
252 11	28 8 9	315 8 9	56 10   0	430 11 G	6 04	3 159 0 3	119
22 1	12 5 0	080	10 12 0	23 9 0	0.13	1,787 15 6	120
••	••		5 1 0	5 1 0	0.33	293 15 3	121
136 13	54 0 3	323 7 0	166 6 3	543 13 6	2.96	7,511 15 0	122
	••		••	••			123
326 8	167 9 0	1,032 4 0	4 4 0	1,204 1 0	18 88	3 220 4 3 ]	124
1,252 17	994 15 6	2,333 11 6	1 0 0	3,329 11 0	9.02	26,113 0 9	125
8,394 6	7,087 2 9	16,146 1 6	88 14 0	23,322 2 3.	4.37	1,57,206 6 8 1	26
77 1	84 12 9	154 1 6	••	238 14 3	۱ ا		
117 14	37 9 6	192 10 0	••	230 3 6			
		·	••		÷ 48·17	1,95,236 3 6 1	27
1,486 4	423 0 9	2,211 4 3		2,634 5 0	-		
272 0	75 1 9	. 399 3 0	·	474 4 9	]		
99 500 15	62 850 4 9	1,86,711 14 0		2 64,362 6 3		48,94,753 1 9	
83,569 17	02 000 £ B	1,00,111 14 0	14,000 0	೨೮ <del>೮,</del> ೮೮2 ೮ ರ		20,04,100 1 9	

No   Name of Work   Expenditure up to last year.   Expenditure up to last year.   Expenditure up to last year.   Total.   High water laws, if from last year.	ĺ		1		Outlar.	•	•		}	
Brought forward	No	Name of Work.			Expenditu	re	Total.	water	any, from previous	of water
128   Bishan Samnad or Ghat		Drought fannand	1		j	•	-	ļ		Ft. in.
Blundari Supply Cut   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bhim Canal   Carda Bh			42,10,017	9 8	04,667	) 6	12,07,984 10 2	1		••
(Toda Bhim Canal)	128		1				7 2 7 7 7			
129   Dhuudera			> 1,011	11 2	40 9	3 4	1,051 13 (			••
130		-	۲							
131   Chan Bund			1		}		,	1		-
132   Mohi Bund	130		1		1	5 6		}	••	1 (
133 Sultana Bund	131		1		1,294 15	. 6	15,611 8 5	5 0	••	2 (
134 Nasnota Bund 1,110 0 3 17 0 9 1,127 1 0 4 0	132		17,506	12 8	94 5	3	17,601 1 11	6 0	••	2
135   Chatterpura and Khatipura   2,610   14   29   0   6   2,539   14   7   4   0	133	Sultana Bund	7,263	9 10	2 9	6	7,266 3 4	5 0		·· .
136   Ramiawala Bund	134	Nasnota Bund	1,110	0 3	17 0	9	1,127 1 0	4 0	••	
137   Benoil Bund	135	Chatterpura and Khatipura	2,510	14 1	29 0	6	2,539 14 7	4 0	٠. ا	٠.
138       Dakhen Sagur        14,225       5 10       11 14 11       14,237       4 9 10 0        3         139       Tank Chandia near Mezabad        3,894       0 9       1 9 0       3,895       9 9 4 0           140       Tank Dhamana        4,340       5 1       26 9 0       4 366 11 1 4 0            141       Kerli Sagua at Toda Rai Singh,       8,202 15 0       1,926 8 8 10,129 7 8 6 0 <t< td=""><td>136</td><td>Ramiawala Bund</td><td>2,930</td><td>1 4</td><td>36 1</td><td>10</td><td>2,966 3 5</td><td>9 0</td><td></td><td>7 :</td></t<>	136	Ramiawala Bund	2,930	1 4	36 1	10	2,966 3 5	9 0		7 :
139   Tank Chandia near Mozabad   3,894   0 9	137	Benoli Bund	37,222	3 6	1,531 11	2	38,753 14 8	17 0	} ··	13 '
140 Tank Dhamana	138	Dakhen Sagur	14,225	5 10	11 14	11	14,237 4 9	10 0		3 1
141 Kerli Sagur at Toda Rai Singh, 8,202 15 0 1,926 8 8 10,129 7 8 6 0 3  142 Sainthal Sagur 1,62,952 0 8 4,780 4 0 1,67,732 4 8 28 0 26  143 Pundrara 9,269 0 9 62 2 6 9,331 3 3 6 0 3  144 Sanwatgurh 18,632 13 8 1,615 10 6 20,148 8 2 6 0 3  145 Negoh Bund 11,217 13 10 498 9 1 11,716 6 11  146 Ramgurh Bond 3,47,515 2 1 72,056 2 2 4,19,571 4 3 61 0 26  147 Bari-ka-Thore at Bairath 24,770 7 11 120 14 2 24,801 6 1 15 0 6  148 Gundal Sagur 10,482 13 9 88 8 8 10,571 6 5 6 6 4  149 Khundar Sagur 2,313 9 8 2,313 9 8 2,313 9 8  150 Harbhagatpura Tank 4,627 14 11 4,627 14 11 4 0 1  151 Ghatialy Bund 4,294 13 6 26 6 3 4,321 3 9 6 0 4  152 Rundh Jagrampura Bund 4,627 15 5 456 14 9 5,084 14 2 5 0 1  153 Bâla Sagur at Sakarwara village. 5,160 8 5 80 7 6 5,249 15 11 5 0 4  New Tank at Manpura village. 4,441 2 3 27 11 6 4,468 13 9 44 0 1  155 Bund Hoshapura Tehsil Toda Rai Singh 1,106 1 6 308 14 0 1564 15 6 3 0 2  Repairs to Bumb Talao at Maipura 1,290 3 3 0 6 0 1,290 9 3	139	Tank Chandia near Mozabad	3,894	0 9	1 8	0	3,895- 9 9	4 0		••
142 Sainthal Sagur 1,62,952 0 8 4,780 4 0 1,67,732 4 8 28 0 26  143 Pundrara 9,269 0 9 62 2 6 9,331 3 3 6 0 3  144 Sanwatgurh 18,632 13 8 1,615 10 6 20,148 8 2 6 0 3  145 Negoh Bund 11,217 13 10 498 9 1 11,716 6 11  146 Ramgurh Bund 3,47,515 2 1 72,056 2 2 4,19,571 4 3 61 0 26  147 Bari-ka-Thore at Bairath 24,770 7 11 120 14 2 24,891 6 1 15 0 6  148 Gundal Sagur 10,482 13 9 88 8 8 10,571 6 5 6 6 4  149 Khundar Sagur 2,313 9 8 2,313 9 8 2,313 9 8  150 Harbhagatpura Tank 4,627 14 11 4,627 14 11 4 0 1  151 Ghatialy Bund 4,294 13 6 26 6 3 4,321 3 9 6 0 4  152 Rundh Jagrampura Bund 4,627 15 5 456 14 9 5,084 14 2 5 0 1  153 Băla Sagur at Sakarwara village. 6,169 8 5 80 7 6 5,249 15 11 5 0 4  165 New Tank at Manpura village. 4,441 2 3 27 11 6 4,468 13 9 44 0 1  166 Repairs to Bumb Talao at Mai-pura 1,196 1 6 368 14 0 1 564 15 6 3 0 2  167 Repairs to Bumb Talao at Mai-pura 1,290 3 3 0 6 0 1,290 9 3	140	Tank Dhamana	4,340	5 1	26 8	0	4366 14 1	4 0		
Pundrara	141	Kerli Sagur at Toda Rai Singh,	8,202	15 0	1,926 8	8 8	10,129 7 8	6 0		3
144 Sanwatgurh 18,532 13 8 1,615 10 6 20,148 8 2 6 0 3 145 Negoh Bund 11,217 13 10 498 9 1 11,716 6 11 146 Ramgurh Bund 3,47,515 2 1 72,056 2 2 4,19,571 4 3 61 0 26 147 Bari-ka-Thore at Bairath 24,770 7 11 120 14 2 24,891 6 1 15 0 6 148 Gundal Sagur 10,482 13 9 88 8 8 10,571 6 5 6 6 6 4 149 Khundar Sagur 2,313 9 8 2,313 9 8 2,313 9 8 150 Harbhagatpura Tank 4,627 14 11 4,627 14 11 4 0 1 161 Ghatialy Bund 4,294 13 6 26 6 3 4,321 3 9 6 0 4 152 Rundh Jagrampura Bund 4,627 15 5 456 14 9 5,084 14 2 5 0 163 Bala Sagur at Sakarwara village, 5,169 8 5 80 7 6 5,249 15 11 5 0 4 164 New Tank at Manpura village. 4,441 2 3 27 11 6 4,468 13 9 44 0 165 Bund Hoshapura Tehsil Toda Rai Singh 5,943 8 8 2,044 10 10 7,988 3 6 7.0 166 Repairs to Bumb Talao at Malpura 1,196 1 6 368 14 0 1 564 15 6 3 0 2 167 Repairs to Bumb Talao at Malpura 1,290 3 3 0 6 0 1,290 9 3	142	Sainthal Sagur	1,62,952	0 8	4,780	1 0	1,67,732 4 8	28 0		26
Negoh Bund	143	Pundrara	9,269	0 8	62 5	2 6	9,331 3 3	6 0		3
146   Ramgurh Bund     3,47,515   2   1   72,036   2   2   4,19,571   4   3   61   0     25     147   Bari-ka-Thore at Bairath     24,770   7   1   120   14   2   24,891   6   1   15   0     6     148   Gundal Sagur       10,462   13   9   88   8   8   10,571   6   5   6   6   6       149   Khundar Sagur       2,313   9   8     2,313   9   8         150   Harbhagatpura Tank     4,627   14   11     4,627   14   11   4   0       151   Ghatialy Bund       4,294   13   6   26   6   3   4,321   3   9   6   0       152   Rundh Jagrampura Bund     4,627   15   5   456   14   9   5,084   14   2   5   0       153   Bala Sagur at Sakarwara village,   5,169   8   5   80   7   6   5,249   15   11   5   0       154   New Tank at Manpura village.   4,441   2   3   27   11   6   4,468   13   9   44   0       155   Bund   Hoshapura Tehail Toda   Rai Singh           166   New Bund   at Gopipura   near Punwar       1,196   1   6   368   14   0   1   564   15   6   3   0       167   Repairs to Bumb Talao   at Malpura       1,290   3   3   0   6   0   1,290   9   3	144	Sanwatgurh	18,532	13 8	1,615 10	: 0 6	20,148 8 2	6 0		3
146       Ramgurh Bund        3,47,515       2       1       72,036       2       2       4,19,571       4       3       61       0        25         147       Bari-ka-Thore at Bairath        24,770       7       11       120       14       2       24,891       6       1       15       0        6         148       Gundal Sagur         10,462       13       9       88       8       6       10,571       6       5       6       6        4         149       Khundar Sagur        2,313       9       8        2,313       9       8 <td< td=""><td>]45</td><td>Negoh Bund</td><td>11,217</td><td>13 10</td><td>498 9</td><td>) ]</td><td>11,716 6 1</td><td></td><td><b>.</b>.  </td><td></td></td<>	]45	Negoh Bund	11,217	13 10	498 9	) ]	11,716 6 1		<b>.</b> .	
147       Bari-ka-Thore at Bairath        24,770       7 11       120 14       2       24,891       6       1       15 0        6         148       Gundal Sagur        10,482       13       9       88       8       8       10,571       6       5       6       6        4         149       Khundar Sagur        2,313       9       8        2,313       9       8	146	1	3,47,515	2 ]	72,056 5	2 2		61 0		26
148       Gundal Sagur        10,482 13 9       88 8 8 10,571 6 5 6 6       4         149       Khundar Sagur        2,313 9 8        2,313 9 8          150       Harbhagatpura Tank        4,627 14 11       4,627 14 11 4 0       1         151       Ghatialy Bund        4,294 13 6 26 6 3 4,321 3 9 6 0        4         152       Rundh Jagrampura Bund        4,627 15 5 456 14 9 5,084 14 2 5 0           153       Bála Sagur at Sakarwara village,       6,169 8 5 80 7 6 5,249 15 11 5 0       4         154       New Tank at Manpura village.       4,441 2 3 27 11 6 4,468 13 9 44 0          155       Bund Hoshapura Tehsil Toda Rai Singh        5,943 8 8 2,044 10 10 7,989 3 6 7.0          166       New Bund at Gopipura near Punwar        1,196 1 6 368 14 0 1564 15 6 3 0          157       Repairs to Bumb Talao at Malpura        1,290 3 3 0 6 0 1,290 9 3	147	}	}		}		1	15 0		6
149   Khundar Sagur     2,313 9 8     2,313 9 8		Į.			1			6 6		4
Harbhagatpura Tank		į	1		}			}		
151 Ghatialy Bund		_	1		]			ì		1
Rundh Jagrampura Bund		]	1		j	3	, '	}	}	4
Bala Sagur at Sakarwara village,   5,169 8 5 80 7 6 5,249 15 11 5 0   4		1	1		ł	-		<b>f</b>		
New Tank at Manpura village   4,441   2   3   27   11   6   4,468   13   9   44   0			i		}		'		]	. 4
Bund Hoshapura Tehsil Toda   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   So			i		1			İ	<b>i</b>	
Rai Singh 5,943 8 8 2,044 10 10 7,989 3 6 7 · 0			1	- '	]	. ,	2,100 20			
Punwar 1,196 1 6 368 14 0 1 564 15 6 3 0 2  Repairs to Bumb Talao at Malpura 1,290 3 3 0 6 0 1,290 9 3	700		5,943	8 8	2,044 10	0 10	7,989 3 (	70	••	••
pura 1,290 3 3 0 6 0 1,290 9 3	1E6			1 (	368 14	1 0	1 564 15	3 0		2
Carried over 49,52,185 8 0 1.41,909 2 4,50,94,064 10 4	157		1,290	3 3	3 0 0	6 0	1,290 9 3		,	••
70714		. Carried over	49,52,155	8 (	1.41,909	2 4	<b>}</b>	}	· · ·	••

18744

DIX E—(continued).

1	Rr	TURNS FOR THE YE	ear.				
No of bighas irrigated	Amount of water-rate	Amount of share of produce.	Miscellancous	Total.	Percentage on Outlay	Total amount realized up to end of August 1901.	ı N
Big. bis	Rs. a. p.	Rs. a p.	R ₉ . a. p.	Rs. a p.		Rs. a. p.	-
<b>83,569 17</b>	62,850 4 9	1 80,711 14 0	14,800 3 6	2,61,362 6 3	••	48,94,753 1 9	
46 17	12 1 3	200 8 6	62 6 6	284 0 3	26 99	4,360 10 6	128
••	••	••	••	••		16 0 0	129
••	••	12 15 0	6 8 0	19 7 0	0.54	126 0 0	1:30
••	• •	••	• •	••	<b>.</b> .	429 15 3	131
66 9	61 11 6	80 13 9	16 13 0	159 6 3	0 90	257 11 8	132
<b>3</b> 99 6	195 5 9	450 0 0	9 2 0	654 7 9	9.00	3,177 10 9	13:
	••	••	• •	••	·	• •	134
	• •	••	••	••		••	13:
81 8	74 3 3	84 6 3	80 8 9	239 2 3	8 06	1026 9 6	136
	••	••	••	• •		••	137
203 4	185 15 9	645 6 0	114 3 3	945 9 0	6 64	3,626 6 3	138
1		••	••	• •			139
		••	••	••		28 8 0	140
	••	••	••	••		510 6 0	141
}	••	••	• •	••			142
244 9	141 1 6	518 0 9	4 0 0	663 5 3	7-10	2,012 9 0	143
	• •		• •	••		••	144
	••		• •	• •			145
	••		••				146
14 1	15 3 3	56 0 0	••	71 3 3	285	123 3 6	147
44 19	26 0 0	44 15 3	16 6 0	87 5 3	0.82	2,740 4 3	148
							149
103 7	54 14 9	194 12 0	••	249 10 9	5:40	275 4 3	150
86 13	53 1 3	173 5 0	180	227 14 3	5 27	405 2 0	151
	••		••			]	152
	••		41		[	]	153
109 3	64 14 6	217 14 0		282 12 6	6 33	282 12 6	154
			••			1	155
66 11	33 11 0	60 0 0	••	93 11 0	60	93 11 0	156
••			••	••			157
85,039 4	63 768 11 6	1,89,459 14 6	15,111 11 0	0.68.340 5 0		49,14,245 13 9	

					Outla	Y.					Water,	17.2.1
No	Name of Work,	Expendit to last y			Expendi during year	the		Total.	Hi wa lev		if any, from previous year	Heigh of water bast rains.
		Rs.	a.	p.	Rs.	n	p	Rs a. p	Ft.	in	Ft. in.	Ft. i
	Brought forward	49,52,155	8	0	1,41,900	2	4	50 91 064 10	4 .	•		
158	Heelolao Tank at Toda	1,881	7	5	• •			1881 7	5 .	•		`
159	Hingonia Weir	3,639	13	2	4 280	15	2	7,920 12	4 .			
160	New Bund Uturna Thikana Dooni	3,144	1	.1	760	G	9	3,901 8	1 6	0		
161	Halolao Tank at Newai	14,901	1	10	2,719	8	5	17,652 10	3 10	0		
162	Bhairon Sagur Thali	1,439	0	n	943	11	31	2,382 11 1	1 5	0		
163	Barial Bund	1,385	12	3	1,049	.5	8	2,435 1 1	1.		.,	
161	Baragaon Wala Tank at Mowah,	5,422	10	-1	5,911	14	4	11,361 8	s 11	0		
165	Jalsain Tank	6,353	4	7	1,865	11	1	8,218 15	3 .			·.
166	Goonsar Tank	528	11	6				528 11	β _i .			
167	Bara Udaiwala Tank, Bariwala (Baniawala)	1,089	11	52	2,317	10	4	3,407 5				4
168	Nainwari Bund at Baoli	1,656		ļ	•		8	1	1	. 3		3
169	Sheo Dongri Bund	38,576			_		.1					••
170	Renwal Bund	8,000				1	3		{ -			••
171	Mandi Bund	2,669		2		-1	2		1 4	-		
172	Kiria or Dwarkapura	4,718				-	0			_		•
173	Dholai Bund	118		- 1			1		1			••
174	Bodia Bund	1 550	11	11	1,189	7	8	2,710 3	8	-		••
175	Pichala Bund	2,040		- 1	•	:;	.1		3	0		•••
-	Churu Sagur	6,918		1		0	2	1	6	0		•
177	Bagait Sagur	617	0	3			ŋ	]	1			
178	Sahadra Tank	3,397	8	10	98	1	3		İ			2
179	Kala Nada Bund	5,003		1	701	2	3		1			4
180	Bhairon Sagur Chandsin	58,620		0	26,752	3	1	'	1	0		_
181	Kishanpura Tank	1,326	11	ננ	25	11	0	1,852 6 1	4	0		••
182	Katli River, Inundation Cut	17,957	12	3	7,987	1	0	25,944 13	3 .			••
183	   Faridpura Koond	. 19	13	0	••			. 19 13 (	), .			••
184	Royala or Bainta Tank Toda Rai Singh	1,597	7	0	609	15	3	2,147 G 1	6	0		
185	Datoli near Madhorajpura	1,063		ı			4		1			••
180	Rampura Tank	-1,217		- }			-	·	1			,
187	Govindi	1,789		]		•			1	. 0		4.
188	Bund Bugri or Nonaria	2,003						·	1			••
189	Banthali near Lamba Bara	2,495			-		11	·	1			
		51,55 913	8	11	2,19,069	8	3	53,74,982 15 (		<u></u>	••	•

DIX E.—contd.

	Re	runns for the ye	CAR.				
No of bighas arrigated.	Amount of water rate	Amount of share of produce.	Miseellanoous	Total.	Percentage on Outlay.	Total amount realized up to end of August 1901.	No.
Big. bis.	Rs. a p	Rs. a. p.	R4. a. p.	R+ n. p		Rs. a. p.	-
85,039 4	68,768 11 6	1,59,459 14 6	15,111 11 0	!  2,69,310		49,14,245 13 9	
	••	••	, ,			0 6 0	158
••	••	••		••	••	••	159
••	••	••	• •	••	••	••	160
• •		••	• •			••	161
24 8	22 7 0	24 2 3	i	64 14 6	1	<b>64 14 6</b>	162
• •	••	••	3 4 0	1	0.12	3 4 0	163
113 11	58 <b>1</b> 3   3	369 5 O	; ! .	899 2 3	8 51	899 2 3	164
••	***	•••		1	, <u>.</u> .	***	165
• • • • • • • •	••	, p 4	, !		٠	***	166
•••	••	***	•••		·	••	167
† ±							100
•••	• •	<b>.</b> • •	•••	<b>!</b> •	. '	•••	168 169
••	••	1	•••			***	170
122 11	21 0 P	169 0 0	100	122 0 9	3 89	122 0 9	171
***	101		•••				179
•••	***		•••			•••	173
••• ;	,,,,	•••		•••		20 6 O	174
:	•••	•••	•••	••		•••	175
••	•••	***				••	176
•••	•••	•••	***	••		•••	177
i •••	••	•••	***	•••		••	178
•••	••	•••	•••	***		••	179
••	***		•••			<b>,</b>	180
9 2	6 1 3	400	•••	10 1 3	0 73	10 1 3	181
•••	***	•••	•••	•••		•••	182
•••	***	••	• •	••	••	••	183
33 3	16 14 G	80 0 0	•••	00 14 6	4 52	96 14 6	184
	•••	•••	•••				185
•••	•••	,•••	•••				186
18 18	7 10 9	15 0 0	•••	22 10 9	0 88	22 10 9	187
	•••	•••	••	••	••		188
•••	•••	***	390	••	••	••	189
85,360 12	63 881 11 0	1,00,013 5 0	15,131 4 8	2,69,059 5 0		40,14,001 0 0	

1	l		١					0			ļ		1	
of "	Water, if any, from previous year.	High water level.		ıl.	Tota	e	itur	Expend during year			Expendit to last		. Name of Work.	No.
Ft. i	Ft. in.	Ft. in.	p.	a,	Rs.	p.	a.	Rs.	р	a.	Rs.			
	•••	***	0	15	53,74,982	1	8	2,19,069	11	6	51,55,913	•••	Brought forward	
•••	••	••••	0	õ	4,943	4	15	<b>3,93</b> 2	8	5	1,010	illage,	Ganwai Tank at Kohara vi	190
	•••	•••	6	0	164			•••	6	0	164	•••	Golairao Tank at Chaksu	191
***	•••	•••	4	11	883	0	12	285	4	15	• 596	•••	Nazimwala at Baminiwas	192
***	•••		5	13	670	6	3	51	13	9	619	•••	Uttar Sagur at Binoli	193
*	•••		6	2	15,453	1	15	4,046	5	3	11,406	Mashi,	Etagoi Weir on the River	194
***	•••	•••	7	13	14,456	9	12	3,278	10	0	11,178	•••	Raiz Chunderpura Bund	195
***		,	1	2	20	1	2	20	-			••	Dhamalia Tank	196
•••	•••		2	1	1,404	힐	1	1,404				•••	Agar Sagur	197
•••		•••	6	10	109	6	10	109	}		]	•••	Kala Talao Jacobpura	198
<b></b>	•••	`	0	13	0	0	13	0				•••	Kala Talao Gobindee	199
•••			1	8	54,13,088	6	13	2,32,199	7	10	51,80,888	•••	GRAND TOTAL	

	R	ETURNS FOR THE	rear.		!		
No. of bighas irrigated.	Amount of water rate.	Amount of share of produce.	Miseellaneou	Tot il.	Percentage on Outlay.	Total amount realized un to end of August 1901.	No.
Big. bis.	Rs. a. p	R«. a p	Rs. a p	Re. a. p		Rs. пр.	<u></u>
85,360 12	63 881 11 0	1,90,043 5 9	15,184 4 8	2,69,059 5 0	· · ·	49,14.994 9 9	
•••	••	1 † 1	• •	· {		••	190
•••	•••	•••	••			••	19
4.4	•••	•••	***	•••	•••	•••	19:
***	•••		•••	•••	•••	•••	19
•••	•••		•••	***	•••	•••	19
18 18	9 7 3	37 12 6	•••	47 3 9	0:32	47 3 9	19
•••	••	•••	•••	***	 1	•	190
•••	•••	•••	***	•••	•••	•	197
***	•••	•••	•••	•••	•••	•••	198
•••	•••	*	•••	•••	***	•••	199

and win have been included in the Jaipur Railway accounts.

### APPENDIX F.

IRRIGATION STATEMENT of the northern and eastern districts for the year ending 31st August 1901, or the Raj Official year Sambat 1957.

l.	The land irrigated	<b></b>	•				Big.	bis.
	By flow	***	•••	•••			36,499	15
	" lift .	•••	•••	•••		•••	1,946	16
			•• ,	Total			38,446	11
	Bed of tanks	•••	***	•••	,	•••	1,608	11
			Grand	Tota)	•••	•••	40,055	2
	The Revenue colle	cted on irri	gation has	been :—	••		"	
		***		Rs,	n.	p.	**	
	Water rate	•••		30,897		•		
	Wells	•••		7	6	9		
	•			<del></del>				
							Rs. a.	
lis	cellaneous:—		•••	_	•••		30,904 14	. 3
	Fine for not maki	no kinries	•••	12,037	15	6		
	Fine for wasting v	_	•••	400	3	9		
	Cattle trespass		•••	37	9	3,		
	Miscellaneous	•••	•••	134	2	6		
		Total	•••	12,609	15	0	•	
	Sale of grass		•••	409	14	0		
	" singharas	•••	•••	144	4	9		
	hoom,	•••	***	301	11	0		
	. patras	•••	•••	217	0	0		
		Total	•••	1,072	13	9	10.000 10	0
				<del></del>			13,682 12	9
		Total	•••	•••			44,587 11	0
	Detail of 38,446 big	has and II	biswas of l	and cultiva	ted	:		
							_	ois.
	Single crop	***	•••	•••		***	•	16
	Bi-crop	***	***	•••		•••	1,615	15
			<b>-</b> ξ	Total			38,446	11
				<del></del>				
							Big. Bi	
	N. B.—Khalsa (raj)		**	••		• •	24,244 8 14,202 3	s }
	Jagir (oodi	ck)	••	• •		••		•
				Total			38,44611	

4. The following statement shows the areas irrigated and the crops grown :-

	. Crops g	rown.·	•	•	Areas i	rrigated.
•	<del>-,</del>	•	-	<del></del>	Bighas.	Biswa.
	•	•			Digitas.	Diawa.
Barley	•••		•••	•••	15,172	19-
Mucca	. •••	•••	•••	***	. 110	. 5
Cotton	•••	•••	•••	•••	1,706	. 2.
Wheat	•••	•••	•••	•••	8,956	· 3
Rice	***	•••	•••	•••	1,505	10
Gram	•••	•••	•••	•••	5,400	11
Bajra	•••	•••	••	•••	6	18
Jowar	•••	•••	•••		. 156	12
Sugarcane	***	•••	•••		285	8
Barley and gram	•••	•••	•••		2,029	. 0
Ranjka	•••	•••	•••	1	4	6
Carrot	•••		•••	1	45	14
Tobacco	***	•••	•••		29	15
Gowar	***	•••	•••	1	15	14
Til (sesame)	•••	•••	••		6	11
Zira (cumin seed)	•••	•••		.,.	958	13
Opium	••	•••	•••		567	10
Arhar		•••	***	]	12	3
Vegetables	•••	•••	•••		81	17
Kodoon	***				0	16
Corriander seed (dha	nia)	•••	•••		76	11
Sounf	· • • •	•••	•••		o l	4
Wheat and gram	•••	•••			610	2
Chillis	•••	•••	***	- 1	0.0	18
Kasni			•••		ŏ	13
Post (poppy)	•••	***	•••		16	10
China	•••	•••	• • • •	•••	27	12
Watering	•••	•••	***		507	11
Maithee	•••	•••			20	2
Sarsoun	•••	•••	•••	- 1	4 1	10
Lehson	•••	•••	•••	.	ő	8
Gardens	•••	•••	•••	.	2	5 5
Wheat and barley		•••	•••	•••	126	18
	***	***	•••		120	10
			Total	!		

- 5. Total revenue collected this year, including water rate, produce, &c., amounts to Rs.1,48,797-0-6, and the cost of supervision and guarding amounts to Rs.9,702, which gives a percentage of Rs.6-8-8.
- 6. Irrigation commenced from the 4th September 1900, and continued up to the 25th February 1901. Irrigation lasted for 175 days, which gives average daily irrigation of 219 bighas 14 biswas of laud.

Besides this the surplus water from the bunds Moran Sagar, Benori Sagar, Madho Sagar, Naglao and Sainthal Sagar, through Sendholi was supplied to the cotton plantation during April and May 1901.

7. This year the revenue has increased a little more than that of 1900, viz:-

				Rs.	a.	p.
Revenue for the year under	review	•••	•••	1,48,281	0	6
Revenue for last year	•••	•••	•••	1,17,523	7	n
-	₩_	=				
		Increase		30.757	9	11

( 74 )

Following is the detailed statement showing areas irrigated in each Nizamat:—

		Nizad Sew/ Jaipu	۱I,	CASIN ROT TAW	4-	Dos		Nizab Hindo		NIZAN GANC PUI	1A-	Nizan Madi Pui	HO-	TOTA	£.
Areas irrigated.		Bighas.	Biswas.	Kighas.	Biswas.	Bighae.	Biswas.	Bighas.	Biswas.	Bighas.	B'swas.	Bighas.	Візтаз.	Bighas.	Biswas.
Khalsa		1,412	14	1,347	17	2,649	17	4,498	9	11,437	18	2,897	13	24,244	8
Jagir (codick)	•••	3,593	5	4,888	16	2,650	717	121	.10	2,802	7	145	2	14,202	3
Bed of tanks	•••	16	0		•••	717	15	874	. 16			· <b>-</b> .		1,608	11
Total	•••	5,021	19	6,236	13	6,018	9	1	1	14,240	5	3,042	15	40,055	2

### APPENDIX G.

IRRIGATION STATEMENT of the western and southern district for the year ending 31st August 1901, or the Raj Official year Sambat 1957.

1. The land irrigated during the year under review was:-

					Big.	bis.
By flow	***		•••	•••	41,620	7
, lift	•••	•••	•••	•••	1,439	7
			" Total	•••	43,059	14
Beds of tanks	•••	•••	•••	•••	2,274	2
		Grand T	Cotal	<b>;··</b>	45,333	16

Besides this 13 bighas and 10 biswas of land of khalsa gardens was irrigated on which no water rate was collected.

2. The revenue collected during the year is as under :-

			Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Water rate	•••	***					•••	_	32,993	10	9
Miscellaneous:-											
Fine imposed for v	vasting water	***		***		167	8	6			
Cattle Trespass	•••	•••		•••		50	14	0			
Miscellaneous	•••	•••		***		98	7	6			
,											
	T	otal		•••		316	14	O			
Sale of grass	***		81	14	0						
,, wood	***		870	13	6						
" patras	***	***	181	14	0	1,134	9	6	1,451	7	6
·· <del>-</del>											
	Total			•••			•••		34,445	2	3

3. Detail of 43,059 bighas and 14 biswas of land cultivated :-

Single crop Bi-crop	•••	•••		••	•••	Big. 42,957 102	bis. 0 14
			Tota	al		43,059	14
* N.B. Khalsa (raj	· · ·					Big. 30,536	bis.
Jagir (oodiek)	••	••	••	••	••	12,523	10
		-		Total	••	43,059	14

### 4. The following statement shows the areas irrigated and the crops grown:-

			Chana chan	_	j	AREAS 11	RIGATED.
			Crops grow	B.	-	Big.	bis.
<del></del>			<del></del>	<del></del>	<del></del>  -		
otton	***	•••	•••		••• }	3,586	15
Iucca	•••	•••	· •••	•••	••• ]-	. 525 ·	14
lowar	•••	•••	•••			0	8
ugarcane	•••	***	•••	•••	* •••	` <b>4</b> 6	10
owar	***	•••	***		(	18	6
addy (rice	:)	•••		*	•••	. 25	2
ndigo		•••	•••	•••		25	11
Inithee		•••		•••		123	12
obacco		,,,	••			52	2
hania 🕺		•••	•••	•••	****	31	- 19
arley '		•••		••••		26,411	: 11
ram		·				1,544	14
ejar (barle	y and gr	ram)		•••		3,990	1
7heat						1,781	13
alao (wate	ring)	•••	•••		•	1,233	2
lsi (linsee	d) °′					4	3
egetables	_,	•••		•••		144	14
hillis		•••	,			5	6
ira (cumii	n)	•••			}	2,733	11
arrot	-,	•••	•	•••		18	18
ojai (whea	at and ha			••	i	537	19
uchani (w			•••	•••	•••	. 86	11
pium		•	•••	•••	***	17	17
anjka		•••	•••	••		3	19
hina		•••	•••	•••	•••	35	9
ajra		•••	•••	•••	•••	. 0	i" 17
ardens		••		•••	··· [-·	64	14
aruens Ioria		•••	•••	•••	•••		5
ioria arwa		*** ***	*****	*** ***	• •••	2	2
arwa Lundwa		•••	•••	•••	•••	1	
LUUUWA		•••	•••	***	••• }	5	; 9
					<b>i</b>		
				··Total	•••	43,059	14

- 5. Total revenue collected this year, including water-rate, produce, &c., amounts to Rs.1,20,326-6-3, and the cost of supervision and guarding Rs.13,012, which gives a percentage of Rs.10-4-8.
- 6. In the Kharif crop irrigation commenced from 5th October 1900, and continued up to the 2nd February 1901; irrigation lasted for 121 days, which gives average daily irrigation of 355 bighas and 17 biswas. Irrigation was also done, but very little in the Rabi crop.
  - 7. Following is the detailed statement showing areas irrigated in each Nizamat:-

Areas Irrigati	sp.	NIZAMAT Malpura.		Nizan Sambii		Niza Sawai J 		TOTAL.		
		Big.	bis.	Big.	bis	Big.	bis.	Big.	bis.	
Khalsa	•••	11,842	. 19	13,244	5	5,449	0	30,536	4	
Jagir (oodick)	•••	3,661	4	6,914	11	1,947	15	12,523	10	
Beds of tanks	•••	55	2	2,219	0	·.	:	2,274	2	
Toţal	• .	15,559	5	22,377	16	7,396	15	45,333	16	

8. The following new area has been brought under cultivation since the construction of the irrigation tanks:—

						Bighas
Toda Rai Singh	•••	•••	***	•••	•••	35,832
Malpura	•••	•••		•••		11.805
Newai	•••	•••	•••	•••	•••	300
Sambhar	••	•••	•••	••	•	2,700
Mozamabad	•••	•••	•••	•••	•••	16,835
Phagi	•••	•••	••	•••	•••	2.000
Kaligh	•••	•••	•••	•••	•••	2,050
Chaksu	•••	•••	•••	••	•••	4,725
Sewai Jaipur	•••	• • •		•••		2,200

### APPENDIX H.

### List of Final Bills submitted to Raj during 1901.

No.	Name of Work.	Amou	ınt.	•
		Rs.	a.	p
٠, ١	Death and at Name Samue Manahad	7 400	**	
2	Poorhouse at Naya Sagur, Mozabad Exchange Compensation Allowance to Mr. C. E. Stotherd, Executive	7,492	7	:
	Engineer Swinerd, Executive	670	9	1
3	Tonk-Deoli-Jehazpur Railway	4,299		
4	Ballast breaking operation at Rewari-Phalera Railway	16,827		
5	Supplying maps to the Raj Pothikhana	36		
6	Repairing Raj silver rolling machine	43		
7	Raising tap at Palace in Sanisurjika Chouk		13	
8	Dispensary building at Univara	9,357	12	
9	Laying temporary pipe at the house of Rao Bahadur Babu Kanti	^	=	
:ö	Chunder Mookerji Altering tap at the house of Rao Bahadur Babu Kunti Chunder	0 2	5 1	
11	Mookerji Laying temporary pipe for Nookta of Rao Bahadur Babu Kanti	0.1		
12	Chunder Mookerji Sinking corrugated iron sheet bachri and repairing well at Police	21	3	
12	Ramgunge Chouk	318	0	
13	Making dry stone pitching and floor near Sikar Khana Court at	510	•	
	Chowgan	364	9	1
14	Watering trees of Parao at Mandawar	57	4	1
15	Do. do. do	48	5	
16	Repairing and clearing Kho Nagori Baori, pargana Sewai Jaipur,	262	12	
17	Sinking masonry cylinder in well Chowkei Top Khana Hazoori,			
	behind Sikhur bund temple		4	
18	Sinking masonry cylinder in Muthka well Chowkri Ghat gate Sinking corrugated iron sheet bachri in well Risala IV Bootaiti,	267	ΙZ	
19	Chowkri Poorani Busti	156	6	
20	Works at Lunatic Asylum	771	8	
21	Working wagons at the garden house of Rao Bahadur Babu Kanti	•••	Ŭ	
	Chunder Mookerji for the year 1899	1,708	5	
22	Working wagons at the garden house of Rao Bahadur Babu Kanti			_
	Chunder Mookerji for the year 1900	1,737		
23	Agra kothi maintenance of (catching monkeys) Workhouse at Jaipur	15 636	0	
24 25	Keen of horses for the Executive Engineer Jaimer	850	0	
26	Do. do. do		3	
27	Watering trees of garden at Jaipur bungalow	1,193		
28	Supplying 1-inch rubber hose at Darukhana Palace	96,		
29	Making a new shed 100 feet long at poorhouse	300		
30	Sinking well for Naina Dass Poojari Temple Sri Sita Ramji at			
	Ghat Bhundari	189	6	
31	Laying pipe at the house of Paudit Lachmi Narain, vakil, Residency	96	4	
32	Repairs to Gap Bund, Dhapawan Cutting rock in drinking well at Nagar, tahsil Malpura or well at	232	7	
33	Madhamanh	189	9	
34	City water-supply, maintenance of	57,056		
35.	Do. do	41,772		
36	. New bund, north-west of maidan, Mozahad	3,856	0	
37	Kaligh Sagur Bandi Canal branch to Akhepura, 7 cart bridges and 7		^	
38	sluices Tori Sagur South Canal making a new tank at Indokhia and Kohara.	2,303	.0	
09	for irrigating Harbhagatpura and Ramnewaspura	4,401	0	
39	Pucca Corewall and repairs to pall for convenience of public at Bund	-,20	-	
	Futteh Sagur	7,109	0	
	Repairing pall of Goli Rao Tank at Chaksu	164	0	
40				-
40 41	Petty works at Ghat Bhundari supply cut and repairs to Chipolai			
	Petty works at Ghat Bhundari supply cut and repairs to Chipolai kutcha road	222	1	

# APPENDIX H—(contd.)

No	Name of Work.	Amo	unt	; <b>.</b>
		Rs.	a.	p.
	Brought forward	1,66,569	3	9
42	Agra kothi maintenance of (scarcity and dearness of fodder for 2 pairs of bullocks)	334	0	0
43	Sinking masonry cylinder in well kothi at Unpoorna outside Mori Eda	333	12	9
44 45	Repairing Khoorah Nasik Rasta Tikiwalan, Bazar Kishunpole Plastering plinth of masonry of syce's quarter at the stable for	12	2	9
717	stallion at Jaipur	5	14	0
46	Making 2 grass sheds, each 100 feet long, at poorhouse	600	9	3
47 48	Altering tap at Rawala Maharaniji Sahiba Sri Chandawatji Bund Saitiwas increasing both ends of bund and mud corewall to	94	0	10
-10	catch water	396	0	0
49	Bund Binori Sagur	3,775	7	5
50	Agra kothi, white-washing, painting gate with colour and repairing left wing door on the reception of H. E. the Viceroy of India	.10	771	2
51	Repairing well Beer Biraj Lalpura on Ajmer road, 6th mile	40 36	5	3 5
52	Erecting tap at the Superintendent, Transport Corps, Jaipur, house	38	2	9
53	Clearing and repairing well at Soorajpole Bazar at the request of			
54	Chaita and Sheo Lal, darbans Sinking corrugated sheet bachri in well, mohalla Patatan Chowkri	203	8	11
ניט	Top Khana Hazoori monana ratatan Chowkii	113	9	0
อีอิ	Sinking corrugated sheet bachri in well of Koliyan at Ankul Khana	104		11
56	Do. do. do. in Koliyan ka well, Chowkri Top'	100		
57	Khana Hazoori	167	-	11
58	Sinking corrugated sheet bachri in sweet water well at Soorajpole	120	• =	•
	Bazar	143	4	0
59 60	Making rubble stone floor at Gangapole gate Laying pipe in branch school at Chandpole	102		ŋ
61	Repairing Khoorah Rasta Ankaran Bazai, Kishunpole	225 21	1 7	6 8
62	Making Khoorah at the foot of Gooni Ghat	116	i	1
63	3 . 5	1	_	_
64	Erecting Ram Piao in Mistri Khana	65 276	3	1 5
65		1	3	9
66	White-washing and petty repairs to Lunatic Asylum	340	10	อั
67	Erecting tap at Hawalat Kotwali Hawali Nataniyan Opening skylights in latrines and roof of barracks at Hawalat Foujdari	158	_	2
68 69	Taking out rubbish of pucca tank (drain) outside of the gate at Dosa	1,062	U	6
1	Fort	337	3	8
70	Repairing fire engines, &c., of the Municipality. Jaipur	42	1	8
71	Repairing rails and wagons at the garden house of Rao Bahadur Babu Kanti Chunder Mookerji	4.019	8	٥
72	Pucca well to the west side of new Jail, Jaipur	3.573	Ö	8
73	Putting folding hinged stops to the City gates in place of stone			
74	blocks in the middle of roads	120	0	0
75	Sinking corrugated sheet bachri in well at Inspecting bungalow	13	6	ι
	compound, Jaipur Transport Corps	171	11	8
76	Repairing wire fencing of date trees and putting a gate	54		1
77   78	Bepairing fence of Bani Chandpole Sinking corrugated sheet bachri in well, mohalla Khoomran Chowkri	191 7	7	11
	Top Khana Hazoori	191	9	3
79	Works at Raja Mull ka Talao	4.639 1	10	2
80 81	Bund in Ghat behind Seth Anant Ram's garden	1,884		4
82	Making dry rubble stone drain near Raja Mull Khatri's ghair	583 1 402 1		() 4
83	Repairs to bund and filling gap with dry rubble stone near Madho			•
84	Bilas Drystone pitching in Gandha Nullah near Sayad Valayat Ally's house	162		2
85	Making new road from Amer Chank to Madho Bilas	460 1 32,174		6
- i	<b></b>			
	Total	2,25,328	10	7

APPENDIX I.

Total monthly and annual rainfall for the year 1901

ı !	ائمدا	( 80 )	اچ	11
OF RAIN.	Amount in inches	3.83 2.25 2.25 2.04 2.19 2.10 3.40 3.40 1.95 1.95 1.95 1.95 2.80 3.40 3.40 1.95 1.95 1.95 2.80 2.80 2.74 2.74 2.74 2.74 2.74 2.74 2.74 2.74	86 09	2.77
Maximum falizs of Rain.	Dates.	1901. 20th July 20th " 19th " 19th " 14th " 7th " 19th July " 7th " 19th July 7th " 19th July 7th " 16th July 7th " 7th " 16th " 7th " 16th fily 6th August 6th " 7th "		:
111	egniovA i inan slaist	26.76 21.29 27.12 22.30 31.86 24.23 25.52 26.28 27.72 27.72 27.72 20.39 18.11 23.45 18.11 23.45 18.11 22.69 15.82 15.82 15.82 15.82	498-96	22 68
	Total.	21.20 17.20 15.89 21.16 17.11 14.90 14.21 19.39 15.66 11.02 10.02 10.02 10.02 10.02 10.02 12.92 8.58 7.08 5.40 12.90 11.02 12.90	291-91	13.27
.190	Decemp	0.05 0.05 0.10   0.23 0.07 0.04 0.18	66-0	0.05
.19	darsvoN	11111111111111111111111	:	:
	October.	1.35 0.023 0.018 0.028 0.035 0.935 0.937 0.15 0.15 0.30	8:94	0.41
.79	Septemb	1.13 1.01 1.01 0.67 0.65 0.24 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	6.61	0.30
	.lsuguA	6.86 6.86 6.33 6.77 6.77 6.77 6.01 6.01 1.98 4.78 4.49 2.92 2.92 2.99 1.59 4.54 6.01 7.01 8.45 8.45 8.45 8.45 8.45 8.45 8.45 8.45	108-56	4.93
	յոյչ.	9.16 7.46 6.40 7.46 8.62 4.81 1.89 5.20 4.62 1.67 2.65 4.31 3.87 3.87	112-49	5.11
	June.	0.47 0.19 0.10 0.16  0.10 0.03 0.02 0.02 0.02 0.03 0.03 0.04 0.02 0.03 0.03 0.03 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05	3.12	<u> </u>
-	Alay.	0.033 0.033 0.01 0.07 0.26 0.26 0.20 0.20 0.20 0.20 0.20 0.20	4-60	0.21
	firgl.	· · · · · · · · · · · · · · · · · · ·	0.30	0.0
	.dorsl	0.12 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.0	1.76	0.08
	•bruary•	0.88 1.60 1.60 0.50 0.55 0.03 0.13 0.13 0.13 0.13 0.13 0.13 0.13	14.41	99.0
	.Vranna	1.15 1.34 0.81 1.26 1.28 1.95 1.46 1.47 1.91 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	30-13	1.37
	Stations.	re	Samodn Total	Average for each month for the State

## ANNUAL REPORT

or.

## LALA RUP CHAND,

Assistant Engineer,

JAIPUR STATE,

FOR THE

YEAR ENDING 31ST DECEMBER 1901.

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Dispensary Nim ka Thanah	•••	•••	•••	•••	2
Do. Chaksu	•••	•••	•••	•••	2
ORIGINAL WO	RKS /IRRIO	ZATION:			
	11110	, , , , , , , , , , , , , , , , , , ,			o
•	•••	•••	••	•••	2
•	•••	•••	•••	•••	4
-	•••	•••	•••	•••	4
Amanishah Supply Cut	•••	•••	•••	•••	4
irrigation i	WORKS (R	EPAIRS).			
Raising 2 ft. Rabaota Bund	•••	•••	•••	•••	4
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## ANNUAL REPORT of Lala Rup Chand, Assistant Engineer, P.W.D., Jaipur, for the year ending 31st December 1901.

- 1. Introduction.—This report contains a brief account of the working of the year.
- 2. Statement of Expenditure.—The expenditure during the year on works and establishment in charge of the Assistant Engineer has been Rs.93,080-14-3, of which the payments amounting to Rs.64,279-5-9 have been made through the Assistant Engineer's office and Rs.28,801-8-6 through the Superintending Engineer's office. The statement below shows the detail of receipt and expenditure transacted in Assistant Engineer's office books:—

Credit.	Amount.	Debit.	Amount.
Last year's balance  To Superintending Enginecr's account  Profit and Loss account  Loss of tools  Fine account  Sale of trees, &c., of road  Grass account	Rs. A. P. 6,787 5 9 67,537 7 6 173 10 0 0 0 6 8 0 0 110 12 9 3 0 0	By Miscellaneous advances account ,, Security Deposit. ,, ,, Unclaimed wages ,, ,, Assistant E n g i n e er's office establishment ,, Overseer's office establishment ,, Irrigation works ,, Buildings ,, Roads ,, Famine Relief Works Total	Rs, A. P.  2,245 6 0  322 2 6  14 10 9  1,193 0 0  240 0 0  52,858 2 3  204 3 0  4,180 15 3  3,020 14 0  64,279 5 9
Grand Total	74,620 4 6	By balance in hand on 31st December 1901	10,340 14 9 74,620 4 6

3. Rainfall and ratio of run off.—The rainfall during the year has been :--

At Boochara ... ... ... ... 6
At Ramgarh ... ... ... 8.78
The run off has been:—

At Boochara 42 per cent. or 2.5 inches.

At Ramgarh 5.1 per cent. or .4 inches.

At Sainthal 12.3 per cent. or 1.6 inches.

- 4. Plans and Estimates.—Seventeen plans and estimates have been prepared during the year.
- 5. Journal.—The Assistant Engineer's Journal shows the distance travelled in inspecting and checking the works in the districts by:—

					Miles.
Road	•••	,	•••	•••	1,730
Rail	•••	,	***	•••	669
•		*: <b>-</b>	Total	•••	2,399

N. B.—The rainfall at Nim ka Thana has been 12 inches; the run off calculated on this gives a percentage of 21 for Boochara.

- 6. Office works.—In the English office, besides the usual routine work, the following is a brief summary of the work done:—
  - 613 Letters received and despatched.
  - 957 Muster Rolls checked.
  - 451 Day Books prepared.
  - 292 Contractors' and other bills prepared and checked in detail.
  - 55 Final bills prepared.

In the Persian office 6,500 papers received and despatched:

- 7. Testimony to Office establishment.—Lala Sheo Nath, in charge of the English office, has carried out his duties to my entire satisfaction. He was recommended for promotion more than once which he so well deserves.
- Pandit Moti Lal, Assistant Clerk, has proved himself a useful hand.

Munshi Bhawani Charna in charge of Persian office has performed all the duties of the office satisfactorily.

Sub-treasurer Lala Ram Pertab has been making payment on all works under Assistant Engineer's direct charge and has done his work satisfactorily.

8. Sub-overseers.—Sayad Asgar Ali, in charge of Tonk Road Sub-Division, has done good work and given satisfaction. He with his sub-division was transferred to Babu K. N. Mookerjee, Assistant Engineer, in the beginning of September 1901.

Babu Nathu Lal has continued in charge of Ramgarh Irrigation Works, Main Dam section, and has done his work well.

Babu Dina Nath, sub-overseer, has been in charge of Ramgarh'canal and has done all the surveys as well as earth and masonry works connected with the canal.

Babu Ganga Pershad, sub-overseer, has been employed in surveying and preparing estimates. At the latter part of the year he fell sick and remained on leave without pay for about five months.

#### DISPENSARIES.

- 9. Dispensary Nim ka Thanah.—Contagious ward consisting of mud walls and thatched roof was built at a cost of Rs.202.
  - 10. Dispensary Chaksu.—Petty repairs were done at a cost of Rs.2-3-0.

#### ORIGINAL WORKS-IRRIGATION.

#### RAMGARH IRRIGATION WORKS.

11. Ramgarh Irrigation works.—The description of this work was given in the provious annual reports.

Owing to scanty rainfall the tank only filled 37 ft. out of 70 ft. H. W. L. All the water stored is being used in irrigation. The detail of work done is as under:—

Main Dam.—The inner slope has been completed up to 70 ft. I in 4 and covered ove with dry rubble pitching 18 inches thick throughout, to protect the earthwork from actions c water andwind. The outer slope has also been completed up to 70 ft. This will also h to be pitched with dry rubble as there is no other cheaper material available at the site keep down the sand from blowing away.

Looking at the result of the last two years' floods, it appears rather doubtful that the tank will ever fill, so it is quite unnecessary to build the dam to the full height proposed 90 ft. Hence it has been decided now to do away with the upper 20 ft. and to make only a thin bund 10 ft. high above the H. W. L. 70 ft. with top breadth 15 ft.

The retaining and corewalls have been duly finished up to 90 ft. as proposed. They will come in use when, after a time, the tank gets silted up and it becomes necessary to raise the H. W. L. and the dam. The earthwork has been done by tramway with side tipping wagons. The average lead being 2,000 ft., and trips made by each wagon worked by two men 20 per day.

The earthwork done during the year has been 3,305,272 c. ft. and up to date 24,094,449 c. ft., with working rate Rs.4-8-7 per  $\frac{7}{10}$  c. ft.

The dry rubble pitching has been done 268,684 c. ft. and the working rate Rs.2-3-8 per cent. c. ft.

The retaining wall and the centre corewalls have been very nearly completed.

Outlet sluices.—The work was completed last year. The top of the main wall, which is 13 ft. wide and serves as a roadway on the bund, has been provided with galvanized iron pipe railing and cutstone wheel guard parapets  $12'' \times 15''$  for protection of men and animals passing over it.

Road from Bund to Ramgarh.—The old cart track near the bund has come under submersion, hence a new road has been taken out above the H. W. L. along the side of the hills. The first portion of it is in rock cutting and has been completed. The rest of the road up to Ramgarh has also been realigned and repaired. The cost has been Rs. 2,379-2-3.

South Main Canal.—The earthwork of the canal was completed last year, but most of the masonry works were remaining to be done. The works have been completed now and the water goes without any obstruction throughout its entire length.

Aqueducts.—The canal crosses two big nullahs, Daber and Newar, at miles 5th and 6th, and has been carried by masonry aqueducts. The Daber nullah aqueduct was completed last year. The Newar aqueduct has been built during the year. It has 3 spans of 15 ft. each, height of springing 8 ft. and waterway of canal 20 ft. wide between parapets. The top of the lower parapet has been made  $4\frac{1}{2}$  ft. wide by corbelling out masonry to serve as a foot path. The work was completed before rains and has answered well.

Masonry falls.—The canal has a fall of 105 ft. in  $21\frac{1}{2}$  miles. The bed slope given is from  $2\frac{1}{2}$  ft. to 3 ft. per mile, and the rest of it has been disposed off in 27 masonry falls. All of them are of one standard plan consisting of vertical falls of 2 ft. drop, with water cushion 2 ft. deep.

They are also provided with cutstone grooved pillars in the main wall to put in planks, where necessary, for raising the level of water up above. Five of the falls were completed last year and the rest 22 have been constructed now.

Rajbaha sluices.—Most of the Rajbahas have been taken from the upper levels of the masonry falls to command higher land. All the Rajbaha sluices are of one standard plan, having one opening 3 ft. wide provided with cutstone grooves for plank and an arched culvertunder the patri. The arrangement for locking the sluices has also been made so that no one can take water without permission. Twenty-eight Rajbaha sluices have been built during the year.

Inlets.—With exception of the two hig nullahs mentioned above, all the rest of the drainage has been taken in the canal by masonry inlets to utilize all this water in filling tanks

below. They have vertical falls with water cushion to break the force of water. Five inlets with waterway from 10 to 30 ft. have been made during the year.

Escape.—A masonry escape has been provided at Jaisinghpura nullah, mile 8. It is 30 ft. long and has its sill 3 ft. above the bed of the canal; so that all the water rising above 3 ft. should pass off into the nullah without doing damage to the canal banks.

Bridges.—Two more bridges have been built during the year. The rondway between parapets is 12 feet. Both these bridges are provided with cutstone grooves at upstream side to raise the level of water, if necessary, and have Ghats for bathing purposes.

Rajbahas.—Thirty-four new Rajbahas of total length of 20:31 miles have been dug out during the year. They are from 3 to 6 ft. wide at bottom, with side slope 1 in 1 and bed slope from 2 to 3 ft. per mile.

12. Sheedungri Bund.—The description of this was given in last year's report. Most of the earthwork was done last year. The gap at the nullah bed has been closed up during the year. A Morinda corewall has also been built in the embankment across the nullah bed. All the water coming down the nullah was stored. The work has been very nearly completed now. The work has been:—

	Ks.	а,	p.
Earthwork 463,379 c. ft. at Rs.3-11-4 % c. ft	1,719	15	6
Morinda corewall 65,154 c. ft. at Rs.10-1-7 %.	658	3	3

13. Halolao Bund, Newaie.—The work was commenced as a famine relief last year and mostly done through tehsildar, Newaie. The gap at the nullah, bed has been filled up during the year and masonry outlet sluice provided. Following is the detail of work done:—

		iks.	a.	p.	
Earthwork 294,501 c. ft. at Rs. 4-9-0 %	•••	1,193	3	6	
Morinda corewall 49,110 c. ft. at Rs.7-12-4 %	•••	381	10	0	
Pucca masonry 2,895 c.ft. at Rs. 13-14-7 per cent.	•••	402	14	0	

14. Amanishah Supply cut for Chandlie Bund.—The most of the work was completed last year. Rupees 374-1-3 have been spent in this year.

### IRRIGATION WORKS REPAIRS.

15. Raising 2 ft. Rabaota Bund.—The work was commenced last year. The earthwork has been completed now. Pucca corewall has also been extended 1,000 ft. out of proposed 1,200 ft. The detail of work is as under:—

			Rs.	a.	p.	
••	Earthwork 75,262 c.ft. at Rs. 2-8-0%	•••	188	7	9	
	Rubble work 9,249 c.ft. at Rs.14-2-10 per cent.	•••	1,311	9	6	

- 16. Raising 2ft. Chandlie Bund.—The work was commenced last year; it is nearly completed now. Only a portion of about 300 ft. near the Chowki remains to be done. Here there was no place to take the earth from, and the work cannot be done till water in the tank dries up entirely: 529,415 c.ft. earthwork has been done during the year the working rate being Rs.3-3-1 % c.ft.
- 17. Repairs to Chandlie Bund and Cands.—The work was completed last year. Ro. 196-12-3 have been spent in this year.

.18. Repairs and Maintenance.—Rupees 1,419-5-9 have been spent on repairs to bunds and canals as per detail below:—

			Repairs	•	Main	enar	ıce.
	-		Rs. a.		${f R}{f s}$	. a.	p.
			705 2	Ĝ	394	. 0	0
1. Boochara	•••	***	80 7	3	31	8	0
2. Sanganeer	•••	•••		-	2'	7 9	0
3. Chandlie S. C.	•••	•••	•••		7:	2 0	0
4. Neota	•••	•••	•••			4 0	6
5. Rawatwala	•••	•••	13 6	6			
6. Matholao	•••	•••	11 6	6	9	2 2	0
7. Rabaota		•••	7 14	_	-		6
8. Madhosinghpura	•••	•••	4 3		•	2 15	9
9. Lambia	•••	•••	2 8	ð	6		_
10. Bairat		•••	***				
10, 20	· Total	•••	811 17	0	60	7 10	9

# 19. Surveys.—The expenditure on surveys has been as under:—

Surv	reys.—220					Rs.	a.	p.	
		•			•••	13	2	0	)
1.	Lakhawas Bund		•••	•••		472	10	9	ı
	Nego Bund	•••	•••	•••	•••	48	5	6	J
	Ripori Sagar	•••	•••	•••	•••	24	8	6	;
4.	Gunganore and	Lalsote	Road	•••	•••	93	2	9	}
5.	Do. and	Bharoti	Road	•••		177	14	9	)
	Moran Sagar		•••	•••	•••	93	_	_	0
6.	Gatolao Tunk	•••	•••	•••			11	ç	9
	Rawatwala Tan	k	•••	•••	***	179	_		6
8.	Baswa Project	•••	•••	• • •	•••		_		•
9.	Kothoon Lalso	le Road	•••	•••	•••	2	Ð	•	U
10.	Formon Parso	DD 2.00.		_		27	4	-1	

20. Heights of Water in the Tanks.—The heights of water in the tanks as filled during the last rainy season are as under:—

Filled

he last rainy season a	re as under.			Filled
			H. W. L.	during the
Name of Tank.			•	year.
·			75	<b>5</b> 8
Boochara	•••		15	7
Bairat	•••	•••	10	$6\frac{1}{2}$
Chandlie	•••	***	22	20
Sheodungri	•••	•••	13	7
Rawatwala	•••	•••	10	4
Lambia	•••	•••	12	11
Madhosinghpura	•••	***	8	21
Rabaota	•••	•••	5	2 ½
Matholao	•••	•••	10	•••
Halolao	•••	•••	40	25
Khurr	***	•••	7	6
Bheroan Sagar	•••	•••	21	2 է
Rayawala, big	•••	•••	5	5
Rayawala, small	••••	••	15	121
Nemla	•••	•••	28	26
Sainthal	•••	•••	9	73
Ramawala	•••	•••	16½	67
Sinoli	***	•••	6	3 }
Bhankri	***	~ ~ · · · ·	8	5
Haripura	•••	•••	•••	
-		_		

		(6.)		
Name of Tank.			W. H. L.	Filled during the
				year.
Gatolao	•••	•••	10	7 ½
Namelae, big		* ***	• 8 .	8
Dhund Sagar at Bar	ial, small		, 7	2
Beeja Sagar	•••	•••	· 9 ³ / ₄	53
Dhapawan	•••	•••	· 7	$2\frac{1}{2}$
Khoond Jatoli Gudha	•••	***	8 ·	. 2
=-	••• '	•••	,6	21,
Moran Nazimwala at Bama	***	•••	17	· 16
Binori	uwas	•••	5	•••
Dekhan Sagar	•••	•••	17	12
Nenwari	•••	•••	10 `	<b>5</b>
Neya Talao	•••	•••	101	5
Ghurla	•••	•••	6	là
Goojar Thikaria	•••	•••	5	4
Bharoti	•••	• • •	8	8
Naglao	•••	•••	13	5 <u>ដ</u>
Kharila	•••	***	11	33
Durga Sagar	•••	•••	10	6
Bheem Sagar	•••	•••	9	3
Dhund Sagar at Male		•••	8	7
Ram Sagar		•••		, <b>5</b> 8
Jey Sagar Toond	***	•••	9	
Bohra ka Dand	• :	•••	4	7 <u>}</u> 4
Dhunnawala Banri	•	•••	01	=
Kote	•••		6	2 <u>ኒ</u> 5
Hurla	•••		6	1
Rundh Jagrampura	•••	,	3	1
Madho Sagar	•••	•••	35	253 253
Nazimwala	••	•••	61	2
Dharam Sagar	***	•••	61	45
Johriwala	•••	•••	6 <u>į</u>	6 <del>1</del>
Ram Talao	•••	***	6	41
Bara Talao	•••	•••	6 ,	4
Telunwala	***	100	6	3
Newazwala	•••	•••	3	. 3
Salimpur	•••	•••	7	3
Sec kunderpur	***	***	10	6.
Shamspur	•••	•••	12	7
Bishansamand	•••	•••	26	$11\frac{1}{2}$
Futteh Sagar	•••	•••	16	8
Dehlm	•••	•••	9	•••
Hoda Heli Mahuswa	•••	•••	14	4
Nahar Khora	•••	•••	11	8
	•••	<i>i</i>	9	4.
Jhunkee Jatwala	•••	***	· 5	3
Jatwaia Julsein	•••	*** **	7	6
Khari	*****	***	10	93
Moti Sagar	***	***	18 8	12
Banyawala	***	*** ,	8 5	<b>2</b> ·
New Tank at Baragao	n ,	***	10	 4
			*********	~3

#### TONK ROAD, II SECTION-FROM MILES 167H TO 47TH-32 MILES.

- 21. Expenditure.—The total expenditure up to 31st August has been Rs.11,768-1-6, after which the road was transferred to Babu K. N. Mookerjee, Assistant Engineer.
  - 22. Kunkur.—Kunkur has been collected at miles Nos. 17,18, 21, 24, 25, 29, 32 and 38.

For	3rd layer	166,659 c. f	t.	***	***	•••	Rs. 7,827			
	•	1,048 .,		•••	•••	•••	48	7	0	
	Total	167.707					7.876	6	0	

23. Consolidation.—Miles Nos. 21, 22, 29, 32 and 43 halves and miles Nos. 18, 24, 38 and 47 in full have been re-metalled and repairs done to others wherever necessary.

3rd Layer	306,528 s. ft	• •••	•••	•••	Rs. 1,770	a. 4	p. 6
Ordinary repairs	106.919 ,	•••	•••	•••	449	0	6
Rain repairs	11.456 "	•••	•••	•••	43	9	3
Total	424.903	•••	•••	•••	2,262	14	

24. Earthwork.—Patris of miles Nos. 18, 19, 21, 22, 32 and 47 and others wherever necessary have been repaired:—

Rs. a. p. 3rd Layer 142,137 c. ft. ... ... 264 1 9

25. Income.—Income from the road during the year has been Rs.110-12-9 as per detail below:—

Babul patras	•••	•••	•••	•••	Rs. 54	a. 3	
Dry trees	•••	•••	••• :	•••	56	9	9
		Total	•		110	12	9

26. Other works. - Other works in connection with this road have been :-

		•	Rs.	а.	p.
(a)	Thatching chupper of Chowki at Newaic	•••	98	13	3
<i>(b)</i>	Repairing chupper of Chaksu dak bungalow	***	26	14	0
(c)	Road Dam Mile No. 31		15	1	0

- 27. Kothun and Lalsote Road.—The work was completed last year. Rupees 145-7-0 have been spent in this year.
- 28. Kutcha Roads.—Rupees 359-15-9 have been spent on kutcha roads during the year as per detail below:—

				Ks.	a.	p.	
Jaipur to Ramgarh	•••	•••	•••	258	15	6	
Sheodaspura to Chandlie	<b>***</b>	•••	•••	79	9	0	
Tonk and Deoli Road	•••	•••	•••	21	7	3	

29. Other expenditure.—Other expenditure through the Assistant Engineer's office has been:—

		113.	41.	ĮJ.
Assistant Engineer's office establishment	***	1,193	0	0
Establishment charged to Eastern District	•••	360	0	0

- 30. Imarat Final bills.—Disposed of 77 Imarat Final bills after going through such items which admitted of check.
  - 31. Works in the Head Office. Worked in the Head office for a total of 128 days.

RUPCHAND,
Assistant Engineer,

JAIPUR.

Re a